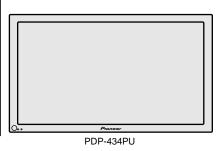
Pioneer sound.vision.soul

Service Manual



ORDER NO. ARP3174

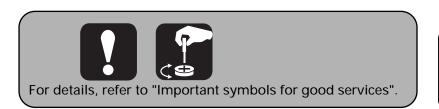
PLASMA DISPLAY

PDP-434PU PDP-434PE PRO-434PU

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-434PU	TUCK	AC110 - 240V	
PDP-434PE	WYVI6	AC220 - 240V	
PDP-434PE	WYVI6XK	AC220 - 240V	
PRO-434PU	KUC	AC120V	

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— Confirm it	
Committee	Serial No.
○○WYVI6	: 🗆 🗆 <u>SS</u> ###### 🛆 🛆
○○WYVI6XK	: □□ UK ######△△

SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

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(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

PDP-434PU

Leakage Current Cold Check

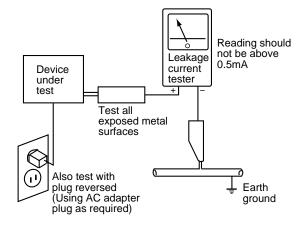
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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■Charged Section

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The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. SW POWER SUPPLY Unit	(215V)
2. 43 X DRIVE Assy	(-225V to 215V)
3. 43 Y DRIVE Assy	(345V)
4. 43 SCAN (A) Assy	(345V)
5. 43 SCAN (B) Assy	(345V)
6. X CONNECTOR AAssy	(-225V to 215V)
7. X CONNECTOR B Assy	(-225V to 215V)

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

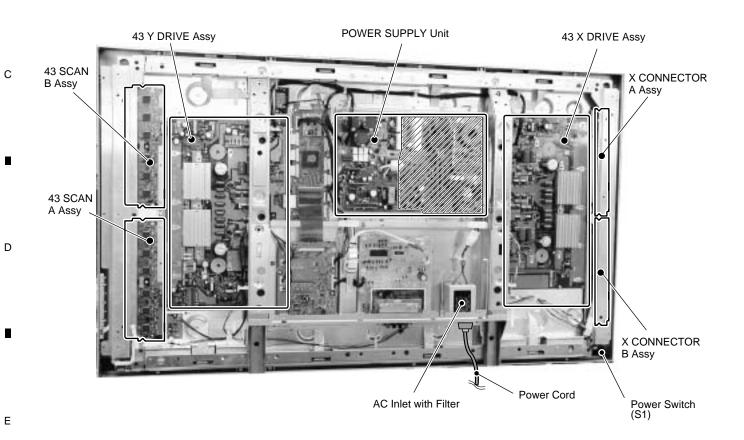


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

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2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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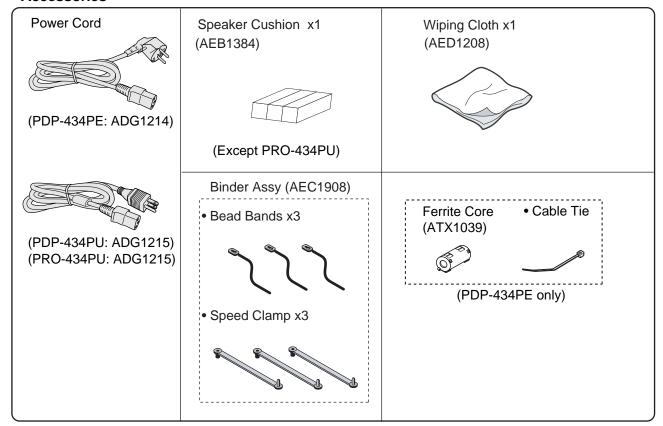
1. SPECIFICATIONS

43" Plasma Display

Item	Model: PDP-434PU	Model: PDP-434PE
Number of Pixels	1024 x 768 pixels	1024 x 768 pixels
Audio Amplifier	13 W + 13 W (1kHz, 10%, 8Ω)	13 W + 13 W (1kHz, 10%, 8Ω)
Surround System	SRS/FOCUS/TruBass	SRS/FOCUS/TruBass
Power Requirement	110-240V AC,50/60Hz,298W (0.3W Standby,120V)	220-240V AC,50/60Hz,295W (0.5W Standby)
Dimensions	1120(W) x 652 (H) x 98 (D) mm (44 ½(W)x 25 ½1/16(H)x 3 ½(D)inches)	1120(W) x 652 (H) x 98 (D) mm
Weight	30.5 kg (67.3 lbs.)	30.5 kg (67.3 lbs.)

Item	Model: PRO-434PU
Number of Pixels	1024 x 768 pixels
Audio Amplifier	13 W + 13 W (1kHz, 10%, 8Ω)
Surround System	SRS/FOCUS/TruBass
Power Requirement	120V AC,60Hz,298W (0.3W Standby)
Dimensions	1120(W) x 652 (H) x 98 (D) mm (44 ½(W)x 25 ½1/16(H)x 3 ½(D)inches)
Weight	30.5 kg (67.3 lbs.)

Accessories



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2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- ullet Screws adjacent to lacktriangle mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

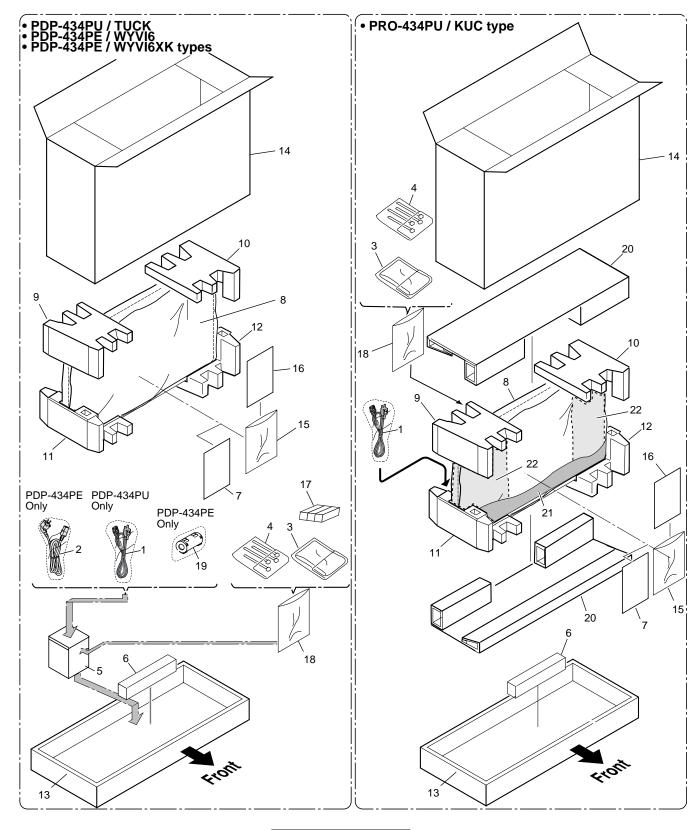
2.1 PACKING

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PACKING Parts List

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Mark	<u>No.</u>	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
<u> </u>	1	Power Cord	See Contrast table (2)	13	Carton (43)	See Contrast table (2)
\triangle	2	Power Cord	See Contrast table (2)	14	Upper Carton (43)	See Contrast table (2)
	3	Wiping Cloth	AED1208	15	Vinyl Bag	AHG1310
	4	Binder Assy	AEC1908	4.0	0 " 0 1	4 D144 000
	5	Code Case	See Contrast table (2)	16	Caution Card	ARM1232
			` '	17	Speaker Cushion	See Contrast table (2)
	6	Center Pad (43)	AHA2336	18	Vinyl Bag S	See Contrast table (2)
NSP	7	Warranty Card	See Contrast table (2)	19	Ferrite Core	See Contrast table (2)
	8	Mirror Mat	See Contrast table (2)	20	Inner Carton	See Contrast table (2)
	9	Pad (PP T- L)	AHA2315			
	10	Pad (PP T- R)	AHA2316	21	Polyethirene Sheet	See Contrast table (2)
		,		22	Paper	See Contrast table (2)
	11	Pad (PP B- L)	AHA2317			
	12	Pad (PP B- R)	AHA2318			

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(2) CONTRAST TABLE

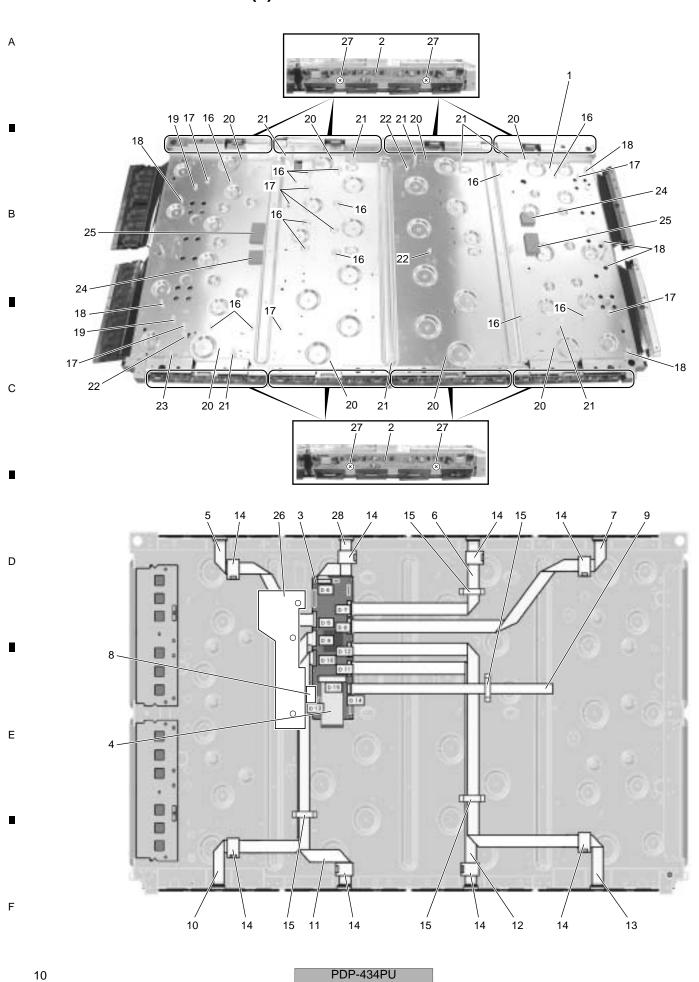
PDP-434PU/ TUCK, PDP-434PE/ WYVI6, PDP-434PE/ WYVI6XK and PRO-434PU/ KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	PDP-434PU TUCK	PDP-434PE WYVI6	PDP-434PE WYVI6XK	PRO-434PU KUC
<u> </u>	1	Power Cord	ADG1215	Not used	Not used	ADG1215
\triangle	2	Power Cord	Not used	ADG1214	ADG1214	Not used
	5	Code Case	AHC1041	AHC1041	AHC1049	Not used
NSP	7	Warranty Card	ARY1138	ARY1114	ARY1114	ARY1134
	8	Mirror Mat	AHG1284	AHG1284	AHG1327	AHG1284
	13	Carton (43PU)	AHD3193	AHD3193	Not used	Not used
	13	Carton (43)	Not used	Not used	AHD3189	Not used
	13	Carton (43EL)	Not used	Not used	Not used	AHD3214
	14	Upper Carton (43PU)	AHD3179	Not used	Not used	Not used
	14	Upper Carton (43PE)	Not used	AHD3180	Not used	Not used
	14	Upper Carton (43)	Not used	Not used	AHD3188	Not used
	14	Upper Carton (43EL)	Not used	Not used	Not used	AHD3215
	17	Speaker Cushion	AEB1384	AEB1384	AEB1384	Not used
	18	Vinyl Bag S	AHG1338	AHG1338	Not used	AHG1338
	19	Ferrite Core	Not used	ATX1039	ATX1039	Not used
	20	Inner Carton	Not used	Not used	Not used	AHB1250
	21	Polyethirene Sheet	Not used	Not used	Not used	AHG1341
	22	Paper	Not used	Not used	Not used	AHG1342

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2.2 CHASSIS SECTION (1)



CHASSIS SECTION (1) Parts list

OI IAOON	o ocorron (1) i arts	1130
Mark No.	<u>Description</u>	Part No.
NSP 1	P.Chassis (43) Assy	AWU1070
NSP 2	43 ADDRESS Assy	AWZ6793
3	DIGITAL VIDEO Assy	AWV2070
4	FPC (114P)	ADY1081
5	Flexible Cable (J201)	ADD1215
6	Flexible Cable (J203)	ADD1217
7	Flexible Cable (J204)	ADD1218
8	Flexible Cable (J209)	ADD1223
9	Flexible Cable (J210)	ADD1224
10	Flexible Cable (J205)	ADD1219
11	Flexible Cable (J206)	ADD1220
12	Flexible Cable (J207)	ADD1221
13	Flexible Cable (J208)	ADD1222
14	Ferrite Core	ATX1048
15	Flat Clamp	AEC1879
16	PCB Spacer	AEC1941
17		AEC1938
18	PCB Spacer	AEC1944
19	PCB Support	AEC1958
20	Ferrite Clamp	AEC1972
21	Wire Saddle	AEC1745
22		AEC1947
23	•	AEC1948
24	Drive Siricon Sheet	AEH1066
25	Drive Siricon Sheet	AEH1065
26	Ydrive Protect Sheet	AMR3346
27	Screw	VBB30P080FNI
28	Flexible Cable (J202)	ADD1227

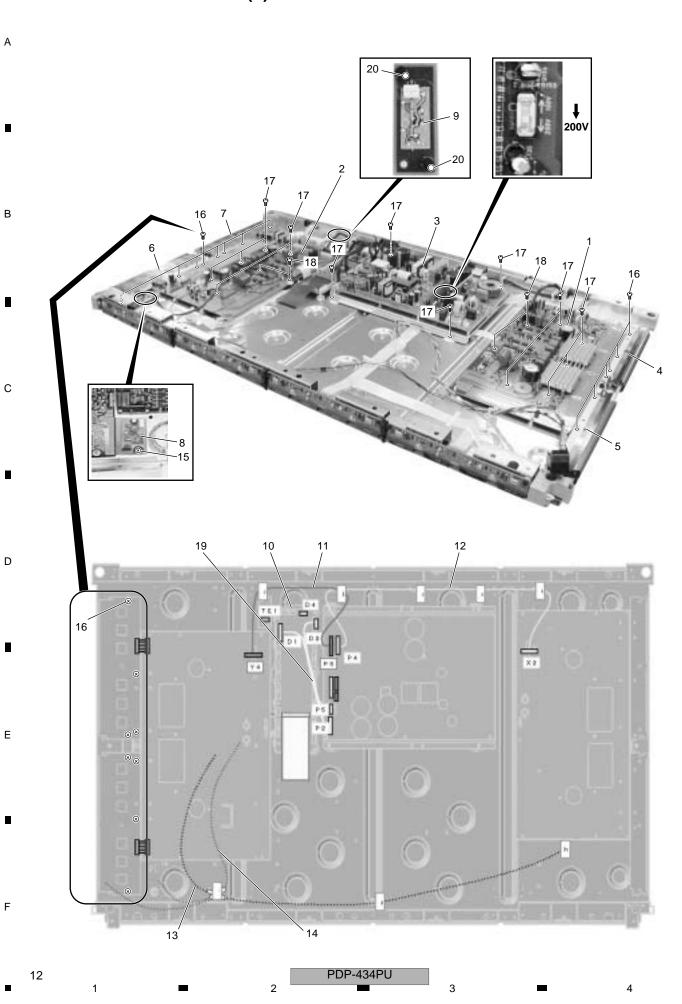
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2.3 CHASSIS SECTION (2)



CHASSIS SECTION (2) Parts list

Mark No.	Description	Part No.
1	43 X DRIVE Assy	AWZ6794
2	43 Y DRIVE Assy	AWV2022
⚠ 3	POWER SUPPLY Unit	AXY1068
NSP 4	X CONNECTOR A Assy	AWZ6798
NSP 5	X CONNECTOR B Assy	AWZ6799
NSP 6	43 SCAN A Assy	AWZ6796
NSP 7	43 SCAN B Assy	AWZ6797
8	KEY CONTROL Assy	AWZ6789
9	PANEL SENSOR Assy	AWZ6795
10	3P Housing Wire (J109)	ADX2847
11	11P Housing Wire (J102)	ADX2840
12	12P Housing Wire(J103)	ADX2841
13	3P Housing Wire (J108)	ADX2846
14	Wire B (J106)	ADX2844
15	Screw	ABZ30P060FMC
16	Screw	PMB30P060FNI
17	Screw	VBB30P080FNI
18	Screw	PMB40P080FZK
19	Wire A (J101)	ADX2839
20	Nyron Rivet	AEC1671

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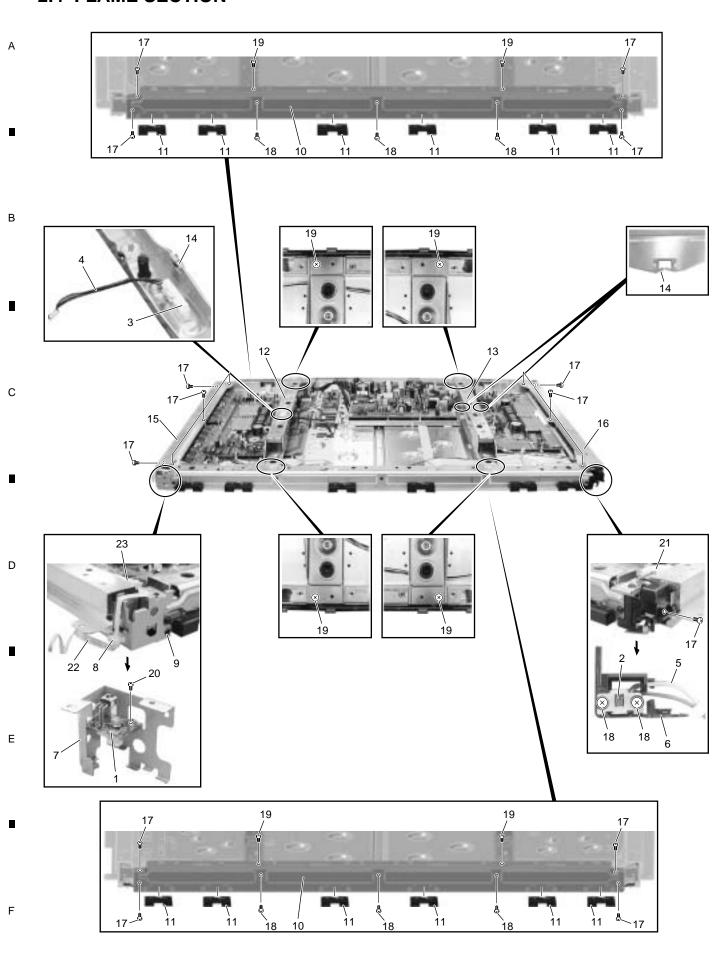
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2.4 FLAME SECTION

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<u>Mark</u>	No.	<u>Description</u>	Part No.
	1	PANEL IR Assy	AWZ6790
<u> </u>	2	Power Switch (S1)	ASG1092
	3	Power Switch (S2)	ASG1089
	4	3P Housing Wire (J107)	ADX2845
	5	Housing Wire (43) (J110)	ADX2848
	6	Switch Holder	AMR3349
NSP	7	IR Holder	ANG2551
	8	Wire Saddle	AEC1948
	9	Nyron Rivet	AEC1671
NSP	10	Front Chassis H (43)	ANA1714
	11	Front Spacer	AMR3369
	12	Sub Frame L Assy (43P)	ANG2545
	13	Sub Frame R Assy (43P)	ANG2548
	14	Edging Saddle	AEC1737
	15	Front Chassis VL Assy (43)	ANA1762
	16	Front Chassis VR Assy (43)	ANA1763
	17	Screw	AMZ30P060FZK
	18	Screw	APZ30P080FZK
	19	Screw	AMZ30P080FMC
	20	Screw	ABZ30P060FMC
	21	Flat Clamp	AEC1884
	22	Flexible Cable (J211)	ADD1225
	23	Flat Clamp	AEC1879

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2.5 MULTI BASE SECTION

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MULTI BASE SECTION Parts list

Mark No.		<u>Description</u>	Part No.
	1	PANEL IF Assy	AWZ6786
	2	HD AUDIO AMP Assy	AWZ6834
	3	HD SP TERMINAL Assy	AWZ6792
<u> </u>	4	AC Inlet	AKP1244
	5	Toroidal Core	ATX1042
	6	Wire C (J104)	ADX2879
	7	••••	
	8	••••	
	9	13P Housing Wire (J105)	ADX2843
	10	Multi Base Assy (P)	ANA1718
	11	Locking Card Spacer	AEC1940
	12	Edge Saddle	AEC1946
	13	Clamp	AEC1884
	14	PCB Spacer	AEC1941
	15	Niplocker	BEC1136
	16	Nyron Binder	AEC-093
	17	Screw	AMZ30P060FZK
	18	Screw	PMB30P060FNI
	19	Screw	ABA1294
	20	Hexagon Head Screw	BBA1051
	21	Screw	PMZ26P060FZK
	22	Screw	APZ30P080FZK
	23	Under Cover Assy	ANG2589

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2.6 REAR SECTION

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REAR SECTION Parts list

Mark N	0.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
	1	Rear Case (43p)	ANE1612	7	Screw	PMB50P120FZK
:	2	Grip	AMR3380	8	Screw	AMZ30P060FZK
NSP :	3	Name Label	See Contrast table (2)	9	Screw	ABZ30P100FZK
	4	Caution Label	See Contrast table (2)			
	5	Terminal Label	See Contrast table (2)			
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(2) CONTRAST TABLE

PDP-434PU/ TUCK, PDP-434PE/ WYVI6, PDP-434PE/ WYVI6XK and PRO-434PU/ KUC are constructed the same except for the following :

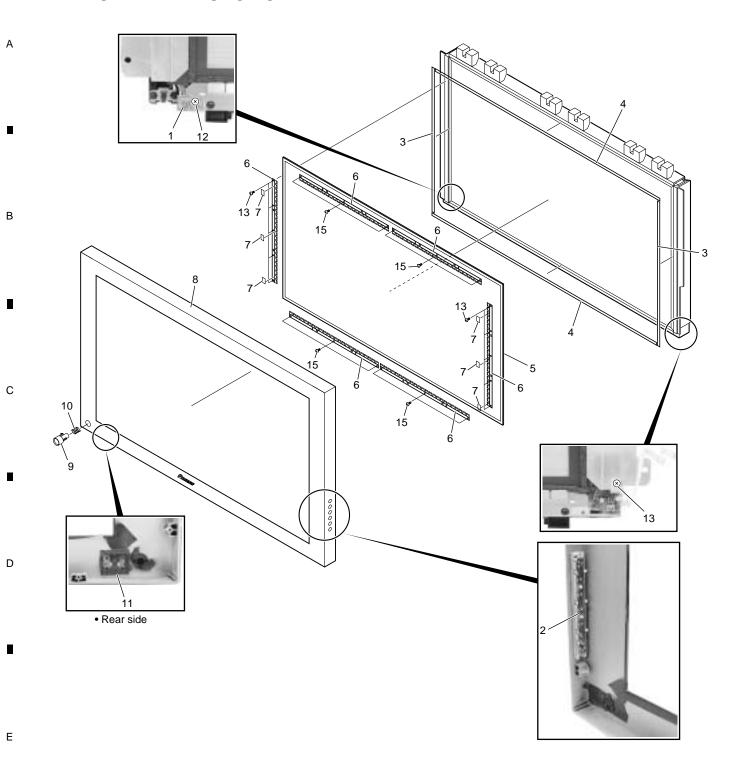
	Mark	No.	Symbol and Description	PDP-434PU TUCK	PDP-434PE WYVI6	PDP-434PE WYVI6XK	PRO-434PU KUC
İ	NSP	3	Name Label	AAL2467	AAL2471	AAL2480	AAL2482
		4	Caution Label	AAX3007	AAX3007	AAX3005	AAX3007
		5	Terminal Label	AAX2997	AAX2998	AAX3006	AAX2997

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2.7 FRONT PANEL SECTION



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FRONT PANEL SECTION Parts list

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	PANEL LED Assy	AWZ6787	9	Power Button	See Contrast table (2)
2	PANEL KEY Assy	AWZ6788	10	Coil Spring	ABH1114
3	Panel Cushion V (43)	AED1201	11	Blind Cushion	AEB1383
4	Panel Cushion H (43)	AED1200	12	Screw	BBZ30P050FMC
5	Protect Panel Assy 43	See Contrast table (2)	13	Screw	ABZ30P060FMC
NSP 6	Panel Holder (43)	ANG2552	14	Serial Sheet	AAX2609
7	Cushion	AEB1393	15	Screw	APZ30P080FZK
8	Front Case Assy	See Contrast table (2)			

(2) CONTRAST TABLE

PDP-434PU/ TUCK, PDP-434PE/ WYVI6, PDP-434PE/ WYVI6XK and PRO-434PU/ KUC are constructed the same except for the following :

Mark	No. Symbol and Description		PDP-434PU TUCK	PDP-434PE WYVI6	PDP-434PE WYVI6XK	PRO-434PU KUC	
	5 Protect Panel Assy (43)		AMR3383	AMR3345	AMR3345	AMR3345	
	8 Front Case Assy		AMB2779	AMB2779	AMB2779	AMB2783	
	9	Power Button	AAD4123	AAD4123	AAD4123	AAD4126	

2.8 PDP SERVICE Assy (AWU1079)

PDP SERVICE Assy (AWU1079) Parts list

Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
NSP	1P. Chassis (43) Assy	AWU1070		2Front Spacer	AMR3369
NSP	2Front Chassis H (43)	ANA1714		2Caution Label	AAX3031
	2Front Chassis VL (43)	ANA1762		2Spacer	AEB1397
	2Front Chassis VR (43)	ANA1763		2Edging Saddle	AEC1737
	2Sub Frame L Assy	ANG2545	NSP	2Drive Voltage Label	ARW1097
	2Sub Frame R Assy	ANG2548		2Front Case (434 Service)	AMB2810 (Note)
	2Wire Saddle	AEC1745		2Rear Case (43P)	ANE1612 (Note)
	2Clamp	AEC1884		ront case (434 Service) and rea	` ',
	2PCB Support	AEC1938		e Service Assy are for transpor IOT use them as parts of the ur	
	2PCB Spacer	AEC1941	DOIN	2Screw	AMZ30P060FZK
	2PCB Spacer	AEC1947		2Screw	AMZ30P080FMC
	2Wire Clip	AEC1948		2Screw	AMZ30P080FZK
	2Ferrite Clamp (Plastic)	AEC1972		2Screw	PMB30P060FNI
	2Panel Cushion H (43)	AED1200		2Screw	VBB30P080FNI
	2Panel Cushion V (43)	AED1201		2Screw	ABZ30P100FZK
	2Ydrive Protect Sheet	AMR3346		200.011	7.02001 1001 ZIC

2.9 PANEL CHASSIS (43) Assy (AWU1070)

PANEL CHASSIS (43) Assy (AWU1070) Parts list

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
NSP	143 ADDRESS Assy	AWV2020		1PCB Spacer	AEC1944	
NSP	243 ADDRESS Assy	AWZ6793		1PCB Support	AEC1958	
	·			1Rivet (Plastic)	AMR1066	
NSP	143 SCAN FUKUGO Assy	AWV2023		1FC Spacer	AMR3370	
NSP	243 SCAN A Assy	AWZ6796		1Adhesive	ZBA-KE3424G	
NSP	243 SCAN B Assy	AWZ6797	NSP	1Lotion	ZLX-AP7	
NSP	2X CONNECTOR A Assy	AWZ6798	NSP	1Tape	ZTA-8101-12	
NSP	2X CONNECTOR B Assy	AWZ6799	NSP	1Double Faced Tape	ZTB-5015-18	
	ŕ		NSP	1Tape	ZTC-POLYCA-11	
NSP	1Address Module (IC1-IC32)	AXF1115	NSP	1Tape	ZTC-POLYCA-20	
NSP	1Plasma Panel Assy (43")(V1)	AAV1243	NSP	1Tape	ZTC-900UL-15	
NSP	1FPC (43XGA-X)	ADY1079	NSP	1Silicone Rubber	ZTX-HC20-15	
NSP	1FPC (43XGA-Y)	ADY1080	NSP	1Wiping Cloth	ZTX-MX100-13	
NSP	1Chassis Assy (43)	ANA1733	NSP	1Film	ZTX-2102Y35-2R5	
-	, (-,		NSP	1Film	ZTX-2102Y45-5	
			PDP-434PU			21

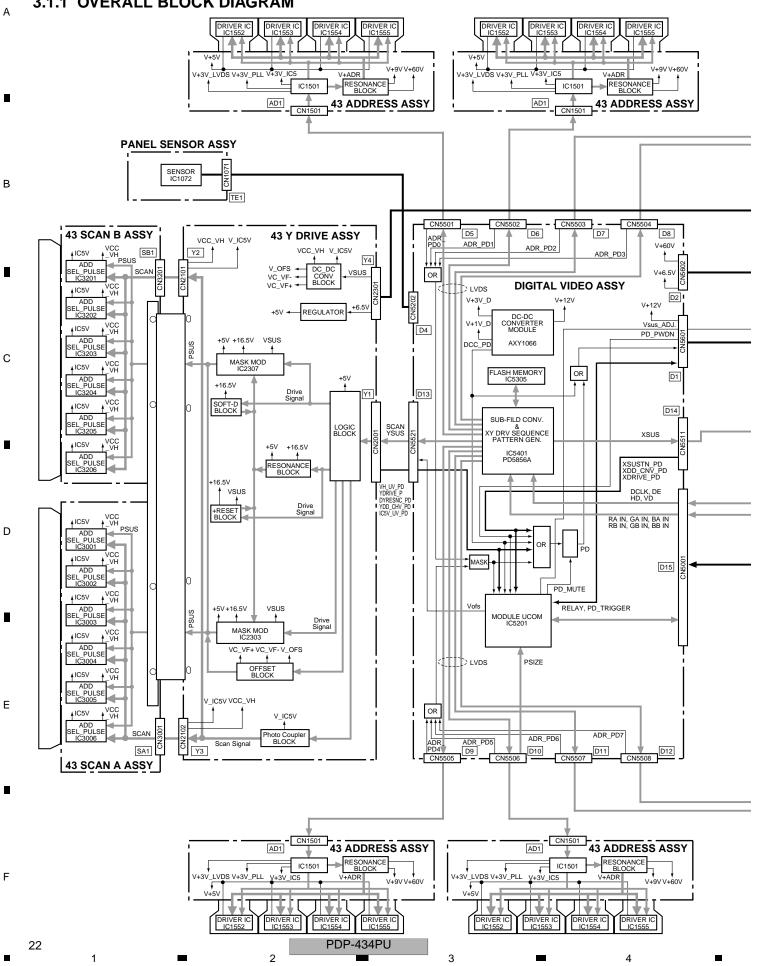
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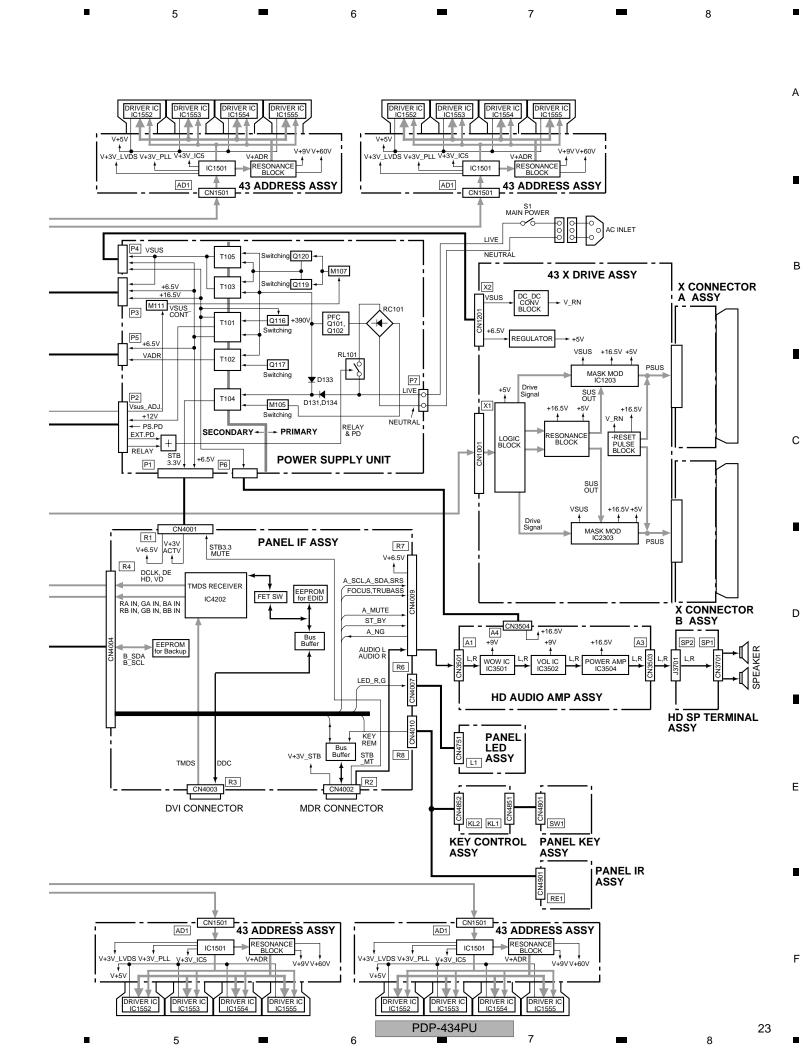
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3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

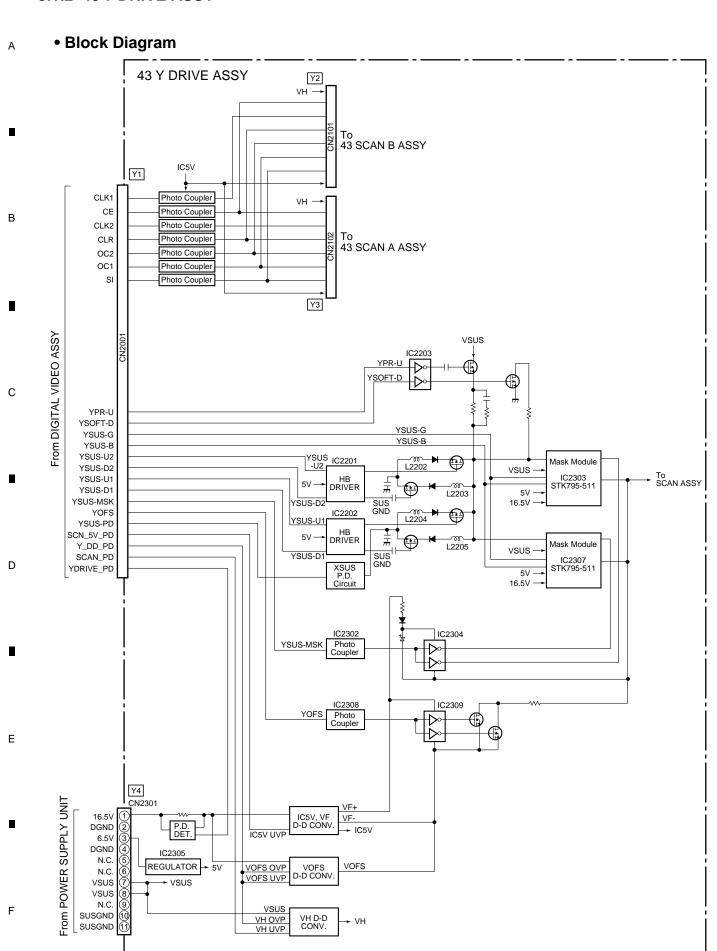
3.1 BLOCK DIAGRAM

3.1.1 OVERALL BLOCK DIAGRAM





3.1.2 43 Y DRIVE ASSY



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• Block Diagram

43 X DRIVE ASSY X1 XSUS-G XSUS-G XSUS-B From DIGITAL VIDEO ASSY To X CONNECTOR ASSY XSUS-B XSUS IC1101 XSUS-U2 _____M L1102 Mask Module XSUS-D2 VSUS SUS H PSUS XSUS-U1 HB DRIVER IC1203 STK795-510 5V 1 _____ L1103 XSUS-D1 XSUS-MSK XSUS-D2 16.5V XCP-MSK IC1102 _____ L1104 XSUS-U1 XNR-D SUS |-HB DRIVER XSUS_PD _____ L1105 Mask Module XDD_PD VSUS XSUS-D1 XDRV_PD IC1207 STK795-510 XSUS P.D. Circuit 16.5V XCP-MSK Charge Pump Circuit VCP IC1202 XSUS-MSK Photo Coupler XNR P.D. DET. X2 CN1201 From POWER SUPPLY UNIT 16.5V DGND IC1204 P.D. DET. XNR-D 6.5V DGND IC1205 N.C. REGULATOR N.C. VSUS VSUS - VSUS VSUS N.C. VRN OVP P.D. SUSGND VRN-225V D-D CONV. SUSGND N.C. VRN UVP P.D.

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3.1.4 PANEL IF ASSY

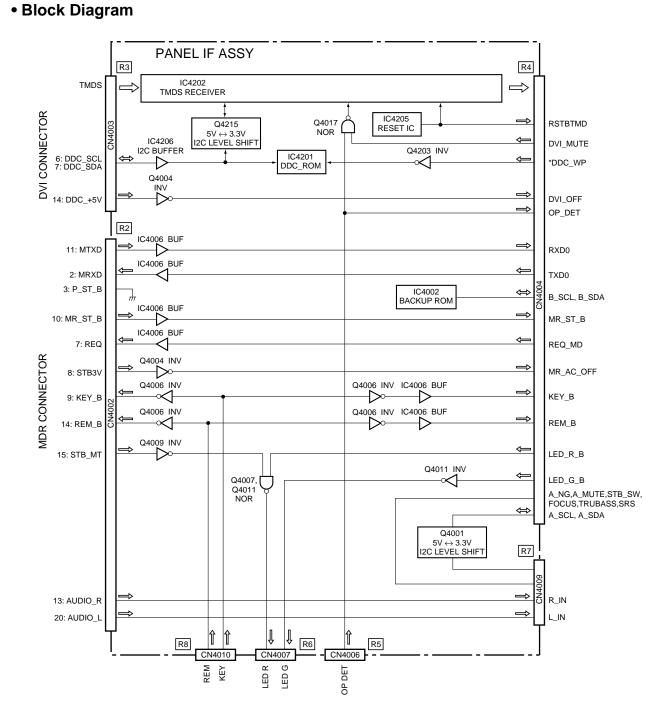
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Voltages

CN4001 (R1) < ⇔ POWER SUPPLY UNIT >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	6.5V	ı	+6.5V power supply	+6.8VDC
2	6.5V	ı	+6.5V power supply	+6.8VDC
3	Vcc_GND	_	GND	
4	Vcc_GND	_	GND	
5	STB3.3V	ı	Power supply +3.3V input of module UCOM at panel side	+3.3VDC
6	STB_GND	_	GND	
7	STB3.3MUTE	0	Standby control (+3.3V mute)	+6.7VDC
8	AC_DET	ı	Primary power supply (AC) state input at panel side	+3.0VDC

CN4002 (R2) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	MR_ST_B	ı	Connection state detecting signal with MDR	0VDC
2	MRXD	0	UART communication transmission data with the main UCOM (external PC) at MDR side	0-3.3V amplitude square wave
3	P_ST_B	0	Connection state output for the MDR	0VDC
4	ACT3V	0	Power supply +3.3V output of module UCOM at panel side	+3.3VDC
5	AC_OFF	0	Primary power supply (AC) state output at panel side	0VDC
6	GND	_	GND	
7	REQ	0	Communication request to the main UCOM (external PC) at the MDR	0-3.3V amplitude square wave
8	STB3V	ı	Standby power supply (+3.3V) input from the MDR	+3.3VDC
9	KEY_B	0	Function key code signal output at panel side	0-3.3V amplitude square wave (at key operation)
10	MR_ST_B'	ı	Connection state detecting signal with the MDR	0VDC
11	MTXD	I	UART communication receive data with the main UCOM (external PC) at the MDR side	0-3.3V amplitude square wave
12	GND	_	GND	
13	AUDIO_R	I	R ch audio signal input	Audio R signal
14	REM_B	0	Remote control code signal output	0-3.3V amplitude square wave (at remocon code transmission)
15	STB_MT	ı	Standby control input	0VDC
16	GND	_	GND	
17	NC	_	Not connected	_
18	FIELD	ı	FIELD control signal	0VDC
19	GND	_	GND	
20	AUDIO_L	I	L ch audio signal input	Audio L signal

CN4003 (R3) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	RX2-	ı	DVI signal	DVI differential signal (-)
2	RX2+	I	DVI signal	DVI differential signal (+)
3	GND	_	GND	
4	N.C	_	Not connected	-
5	N.C	_	Not connected	_
6	DDC_SCL	ı	I2C signal for DDC	0-5V amplitude square wave
7	DDC_SDA	I	I2C signal for DDC	0-5V amplitude square wave
8	N.C	_	Not connected	_
9	RX1-	ı	DVI signal	DVI differential signal (-)
10	RX1+	ı	DVI signal	DVI differential signal (+)
11	GND	_	GND	
12	N.C	_	Not connected	_
13	N.C	_	Not connected	-
14	DDC_+5V	ı	I2C power supply for DDC	+5VDC
15	GND	_	GND	
16	HPD	0	Hot plug detection	+5VDC
17	RX0-	ı	DVI signal	DVI differential signal (-)
18	RX0+	I	DVI signal	DVI differential signal (+)
19	GND	_	GND	
20	N.C	_	Not connected	_
21	N.C	_	Not connected	-

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CN4003 (R3) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
22	GND	_	GND	
23	RXC+	- 1	DVI signal	DVI differential signal (-)
24	RXC-	ı	DVI signal	DVI differential signal (+)

CN4006 (R5) < ⇔ TRAP SW >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	OP_DET	ı	Rear panel open detecting signal	0VDC
2	N.C	_	Not connected	_
3	GND	_	GND	

CN4007 (R6) $< \Leftrightarrow$ PANEL LED ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	LED_G	0	LED control (green)	+2.1VDC
2	LED_R	0	LED control (red)	0VDC
3	AC_OFF	0	Primary power supply (AC) state output at the panel side	0VDC

CN4009 (R7) < ⇔ HD AUDIO AMP ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	A_NG	ı	Abnormal detecting signal of the audio block	+3.3V DC
2	V+6.5	0	+6.5V power supply	+6.8V DC
3	GNDA	_	GND	
4	L_IN	0	L ch audio signal	Audio L signal
5	GNDA	_	GND	
6	R_IN	0	R ch audio signal	Audio R signal
7	ST_BY	0	Standby signal of the audio block	+3.3V DC
8	A_MUTE	0	Audio mute signal input	0V DC
9	SCL	0	I2C control signal for audio	0-3.3V amplitude square wave
10	SDA	0	I2C control signal for audio	0-3.3V amplitude square wave
11	FOCUS	0	Focus function control signal	+3.3V DC
12	SRS	0	SRS function control signal	+3.3V DC
13	TRUBASS	0	TRUBASS function control signal	+3.3V DC

CN4010 (R8) $<\Leftrightarrow$ PANEL IR ASSY, KEY CONTROL ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	STB3V	0	+3.3V power supply	+3.3V DC
2	STBGND	_	GND	
3	REM	I	Remote control code signal input	0-3.3V amplitude square wave (at remocon code transmission)
4	STB+3V	0	+3.3V power supply	+3.3V DC
5	KEY	ı	Function key code signal input at the panel side	0-3.3V amplitude square wave (at key operation)
6	STBGND	_	GND	

CN4801 (SW1) < ⇔ KEY CONTROL ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	STBGND	_	GND	0V DC
2	G1	0	Key scan signal	0V DC
3	G0	0	Key scan signal	0V DC
4	D5	- 1	Key scan signal	+3.3V DC
5	D6	I	Key scan signal	+3.3V DC
6	D7	ı	Key scan signal	+3.3V DC

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CN4004 (R4) $< \Leftrightarrow$ DIGITAL VIDEO ASSY > (1/2)

_			Observation of the second of t	V. K NTOO O' I I
No.		1/0	Signal Description	Voltages at NTSC Signal Input
1	GND	_	GND	
2	GND	_	GND	
3			Not connected	_
4			Not connected	_
—	BA0		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
	BA1		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
	BA2		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
	BA3		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA4		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
	BA5		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA6		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
-	BA7	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
	GND	_	GND	
	GND	_	GND	
15			Not connected	_
16			Not connected	_
	GA0		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
18	GA1		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
-	GA2		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
_	GA3		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
-	GA4		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
	GA5		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
	GA6		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
	GA7	0	8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
—	GND	_	GND	
—	GND	_	GND	
27			Not connected	_
28			Not connected	_
	RA0		8bit video signal output (RED even number)	0-3.3V amplitude square wave
_	RA1		8bit video signal output (RED even number)	0-3.3V amplitude square wave
	RA2		8bit video signal output (RED even number)	0-3.3V amplitude square wave
-	RA3		8bit video signal output (RED even number)	0-3.3V amplitude square wave
-	RA4		8bit video signal output (RED even number)	0-3.3V amplitude square wave
	RA5		8bit video signal output (RED even number)	0-3.3V amplitude square wave
	RA6		8bit video signal output (RED even number)	0-3.3V amplitude square wave
	RA7		8bit video signal output (RED even number)	0-3.3V amplitude square wave
_	GND\	_	GND	
\vdash	DCLK	0	Synchronous signal output (clock)	0-3.3V amplitude square wave (42.5MHz)
39	GND	-	GND	
-	DEI		Synchronous signal output (data enable)	0-3.3V amplitude square wave (positive polarity)
	HDI		Synchronous signal output (Horizontal sync.)	0-3.3V amplitude square wave (negative polarity)
	VDI		Synchronous signal output (Vertical sync.)	0-3.3V amplitude square wave (negative polarity)
	FIELD	0	FIELD control signal	OV DC
	APL_DT		Not connected	-
45			Not connected Not connected	
46	DDO	_		0.2.2\/
-	BB0		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
-	BB1		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
	BB2		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
	BB3		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
	BB4		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
	BB5		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
	BB6		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
-	BB7		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
	GND	_	GND	
—	GND	_	GND	
57			Not connected	_
58			Not connected	-

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• Voltages

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CN4004 (R4) < ⇔ DIGITAL VIDEO ASSY > (2/2)

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No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
59	GB0	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
60	GB1	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
61	GB2	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
62	GB3	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
63	GB4	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
64	GB5	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
	GB6	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
	GB7	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
67	GND	_	GND	
68	GND	_	GND	
69			Not connected	_
70			Not connected	_
	RB0	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB1	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB2	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB3	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB4	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB5	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB6	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB7	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	GND		GND	e elev amplicade equale wave
	MASK		Not connected	_
	MODE		Not connected	_
	MODEL		Not connected	_
	DITHER		Not connected	_
	V+3VACTV	0	Power supply +3.3V output of module UCOM at panel side	+3.3VDC
	B_SDA	<u> </u>	E2PROM control signal for backup	0-3.3V amplitude square wave
	RXD0	0		0-3.3V amplitude square wave
	REM_B	0	Remote control code signal output	0-3.3V amplitude square wave (at remocor code transmission)
88	TXD0	ı	UART communication transmission data with the main UCOM (external PC) at MDR side	0-3.3V amplitude square wave
	KEY_B	0	Function key code signal output at panel side	0-3.3V amplitude square wave (at key operation)
90	REQ_MD	ı	Communication request to the main UCOM (external PC) at MDR side	0-3.3V amplitude square wave
91	LED_R_B	ı	LED control (red)	+3.3VDC
	MR_AC_OFF	0	AC state output at MR side	0VDC
	LED_G_B	ı	LED control (green)	0VDC
94	POWER		Not connected	_
95	DVI_MUTE	ı	DVI mute signal input	OVDC
	MR_ST_B	0	Connection state detecting signal with MDR	0VDC
	A_MUTE	ı	Audio mute signal input	0VDC
	OP_DET	0	Rear case open detecting signal	0VDC
	A_NG	0	Abnormal detecting signal of audio block	+3.3VDC
	PNL_MUTE		Not connected	_
	A_SCL	1	I2C control signal for audio	0-3.3V amplitude square wave
	STB_SW	ī	Standby signal of audio block	+3.3VDC
	A_SDA	ī	I2C control signal for audio	0-3.3V amplitude square wave
	DDC_WP	ī	EDID E2PROM writing inhibit signal	0VDC
	TRUBASS	÷	TRUBASS function control signal	+3.3VDC
	B_SCL	i	E2PROM control signal for backup	0-3.3V amplitude square wave
	FOCUS	÷	FOCUS function control signal	+3.3VDC
	DVI_OFF	0	Connection detecting signal of DVI connector	0VDC
	SRS	ı	SRS function control signal	+3.3VDC
	RSTBTMD	0	TMDS IC reset signal	+3.3VDC
			Not connected	
110	MAX PIS1			
110 111	MAX_PLS1	-		+3 3VDC
110 111 112	MAX_PLS1 L_SYNC MAX_PLS2	0	TMDS IC synchronous detecting signal Not connected	+3.3VDC

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3.1.5 DIGITAL VIDEO ASSY

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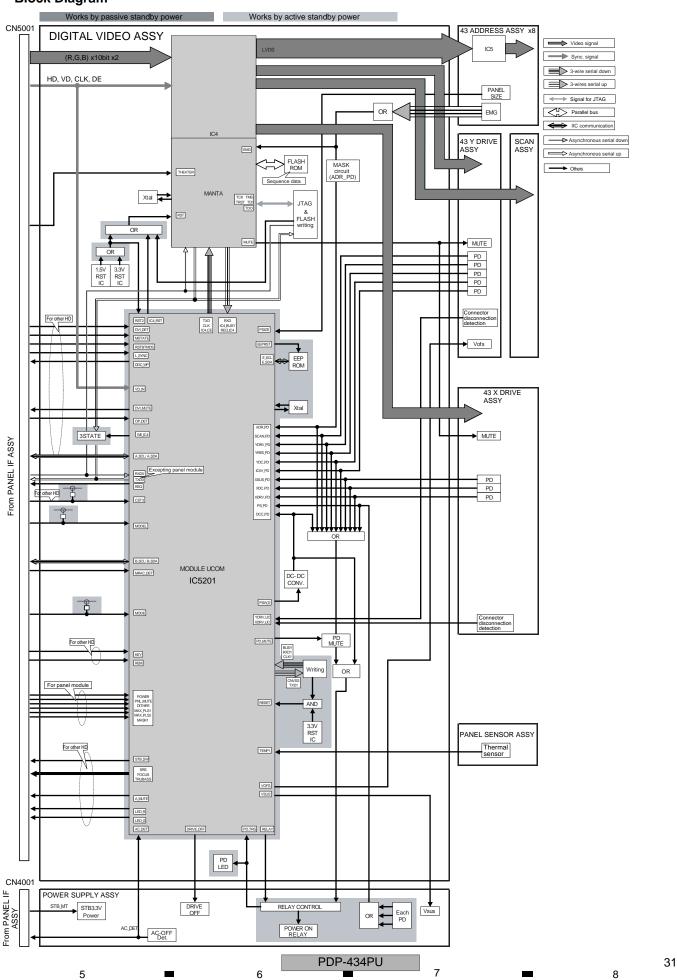
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• Block Diagram



Voltages

CN5601 (D1)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	+12V	ı	+12V power input	+12VDC
2	+12V	ı	+12V power input	+12VDC
3	GND_D	_	GND	
4	GND_D	-	GND	
5	PD	0	Power down signal	0VDC
6	VSUS_ADJ	0	VSUS adjustment signal	
7	PS_PD	ı	Power-down detecting signal of POWER SUPPLY block	0VDC
8	RELAY	0	Relay control signal	+3.3VDC
9	DRF	0	Drive control signal	0VDC
10	AC_DET	I	Primary side power (AC) state output at panel side	+3.0VDC
11	PD_TRIGGER	ı	Power down trigger	+3.3VDC

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CN5602 (D2)

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•	(1000 (52)				
No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input	
1	VADR	I	Address drive power (+61V) input	+61VDC	
2	VADR	I	Address drive power (+61V) input	+61VDC	
3	N.C		Not connected		
4	GND_ADR	_	GND		
5	GND_ADR	_	GND		
6	+6.5V	I	+6.5V power input	+6.8VDC	
7	GND_D	_	GND		

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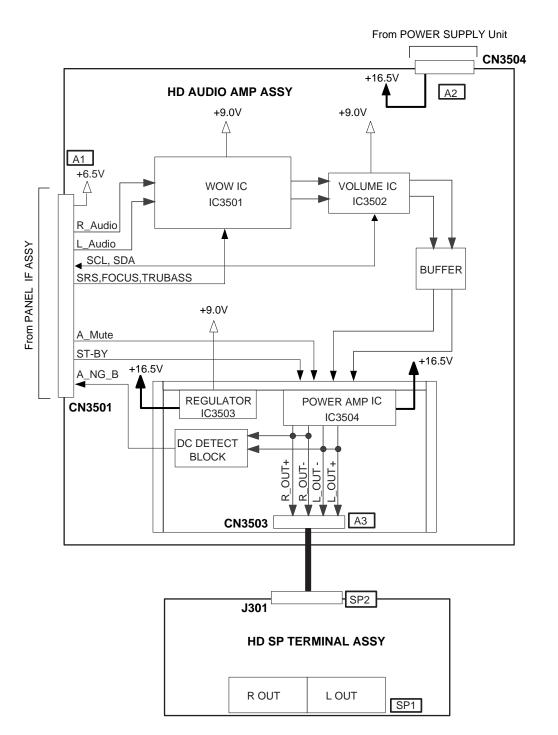
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DIGITAL VIDEO ASSY

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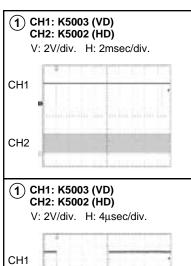
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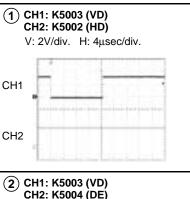
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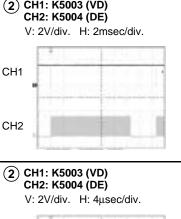
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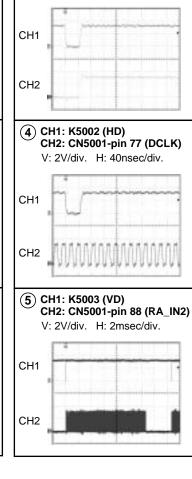
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CH2









(3) CH1: K5002 (HD) CH2: K5004 (DE)

(3) CH1: K5002 (HD) CH2: K5004 (DE)

V: 2V/div. H: 40nsec/div.

CH1

CH2

V: 2V/div. H: 2µsec/div.

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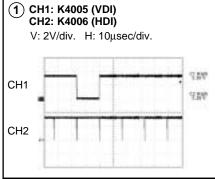
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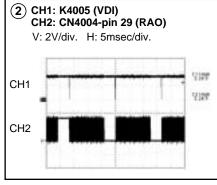
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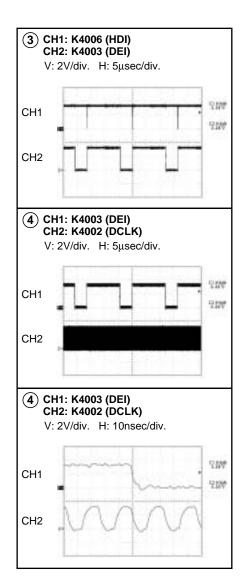
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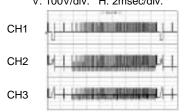
43 X DRIVE ASSY, 43 Y DRIVE ASSY and 43 SCAN A ASSY

Drive Output Waveform (1 field,color-bar) CH1: R1226 (XPSUS) - K1201 (SUSGND) (43 X DRIVE AŚSY)

CH2: R2348 (YPSUS) - K2301 (SUSGND) (43 Y DRIVE ASSY)

CH3: K3001 (Scan OUT) - K2301 (SUSGND) (43 SCÀN A ASSÝ)

V: 100V/div. H: 2msec/div.



Reset Pulse

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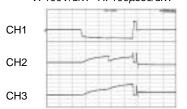
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CH1: R1226 (XPSUS) - K1201 (SUSGND) (43 X DRIVE ASSY) CH2: R2348 (YPSUS) - K2301 (SUSGND) (43 Y DRIVE ASSY)

CH3: K3001 (Scan OUT) - K2301 (SUSGND) (43 SCÀN A ASSÝ)

V: 100V/div. H: 100µsec/div.



Sustain Pulse (1 sub-sub-field)

CH1: R1226 (XPSUS) - K1201 (SUSGND) (43 X DRIVE ASSY)

CH2: R2348 (YPSUS) - K2301 (SUSGND)

(43 Y DRIVE ASSY) CH3: K3001 (Scan OUT) - K2301 (SUSGND)

(43 SCÀN A ASSÝ)

V: 50V/div. H: 5µsec/div.

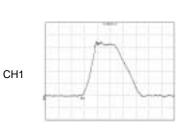


Sustain Waveform

CH1: R2348 (YPSUS) - K2301 (SUSGND)

(43 Y DRIVE ASSY)

V: 50V/div. H: 500nsec/div.



Control Signal (Sustain Waveform Gen.)

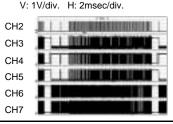
CH2: K2016 (YSUS-G) - K2010 (DGND) CH3: K2025 (YSUS-U1) - K2010 (DGND) CH4: K2022 (YSUS-U2) - K2010 (DGND) CH5: K2026 (YSUS-B) - K2010 (DGND) CH6: K2024 (YSUS-D2) - K2010 (DGND) CH7: K2027 (YSUS-D1) - K2010 (DGND) (43 Y DRIVE ASSY)

V: 1V/div. H: 500nsec/div.



Scan Control Signal (1 field, color-bar)

CH2: K2006 (SI) - K2029 (DGND)
CH3: K2009 (OC1) - K2029 (DGND)
CH4: K2004 (OC2) - K2029 (DGND)
CH5: K2007 (CLR) - K2029 (DGND)
CH6: K2003 (CLK2) - K2029 (DGND)
CH7: K2008 (LE) - K2029 (DGND)
(43 Y DRIVE ASSY)



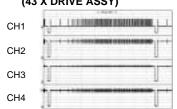
X Drive Pulse Control Signal (color-bar)

CH1: R1226 (XPSUS) - K2301 (SUSGND)

V: 100V/div. H: 2msec/div.
CH2: K1016 (XCP-MSK) - K1020 (DGND)
CH3: K1015 (XSUS-MSK) - K1020 (DGND)

CH4: K1014 (XNR-D) - K1020 (DGND) V: 1V/div. H: 2msec/div.

(43 X DRIVE ASSY)

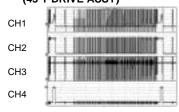


Y Drive Pulse Control Signal (color-bar)

CH1: R2348 (YPSUS) - K2301 (SUSGND)

V: 50V/div. H: 2msec/div. CH2: K2015 (YSUS-MSK) - K2010 (DGND) CH3: K2017 (YSOFT-D) - K2010 (DGND) CH4: K2023 (YPR-U) - K2010 (DGND)

(43 Y DRIVE ASSY)

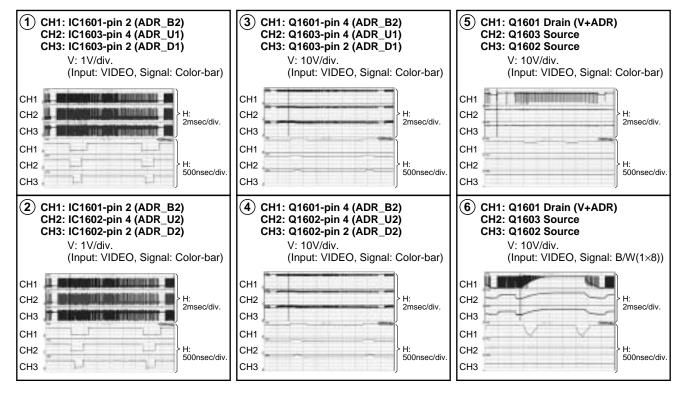


PDP-434PU

43 ADDRESS ASSY • ADR RESONANCE BLOCK (VIDEO)

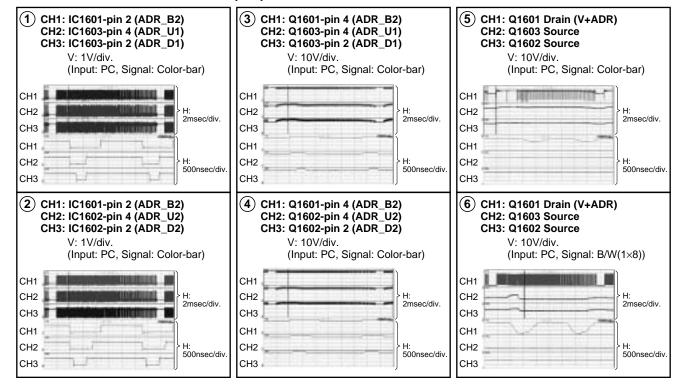
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43 ADDRESS ASSY • ADR RESONANCE BLOCK (PC)

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PDP-434PU

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43 ADDRESS ASSY • ADR LOGIC BLOCK

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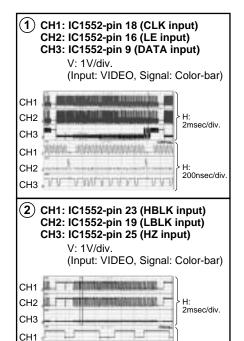
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PDP-434PU

H: 50μsec/div.

- ullet The $oldsymbol{\triangle}$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

 $\rightarrow 1R0 \qquad \qquad RSIP \square RO K$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \cdots RN1/4PC \boxed{5} \boxed{6} \boxed{2} \boxed{1} F$

Mark LIS	No. Description Γ OF ASSEMBLIES	Part No.	Mark No. Description 43 ADDRESS ASSY [ADR LOGIC BLOCK]	Part No.	В
NSP NSP	143 ADDRESS ASSY 243 ADDRESS ASSY	AWV2020 AWZ6793	SEMICONDUCTORS IC1501	PEE001B	
NSP NSP NSP NSP	143 SCAN FUKUGO ASSY 243 SCAN A ASSY 243 SCAN B ASSY 2X CONNECTOR A ASSY	AWV2023 AWZ6796 AWZ6797 AWZ6798	COILS AND FILTERS F1501-F1503	ATF1194	•
NSP	2X CONNECTOR B ASSY	AWZ6799	<u>CAPACITORS</u> C1556,C1559,C1560,C1563	ACG1105	
NSP	1HD FUKUGO ASSY 2PANEL IF ASSY 2PANEL LED ASSY 2PANEL KEY ASSY 2KEY CONTROL ASSY 2PANEL IR ASSY	AWV2017 AWZ6786 AWZ6787 AWZ6788 AWZ6789 AWZ6790	(330p/100V) C1501,C1502 (47/6.3V) C1503-C1507,C1555 C1558,C1561,C1564 RESISTORS	ACH1357 CKSSYF104Z16 CKSSYF104Z16	С
NSP	1DIGITAL VIDEO ASSY	AWV2070	R1510,R1519,R1522 R1505-R1509 Other Resistors	RAB4C470J RS1/16SS1000F RS1/16S###J	•
	1HD AUDIO ASSY 2HD SP TERMINAL ASSY 2HD AUDIO AMP ASSY	AWV2019 AWZ6792 AWZ6834	OTHERS CN1501 40P FFC CONNECTOR	AKM1215	
NSP	143 X DRIVE ASSY 243 X DRIVE ASSY 2PANEL SENSOR ASSY	AWV2021 AWZ6794 AWZ6795	[ADR RESONANCE BLOCK]		D
	143 Y DRIVE ASSY	AWV2022	SEMICONDUCTORS IC1601-IC1603	TND304S	
\triangle	1POWER SUPPLY UNIT	AXY1068	Q1604 Q1601 Q1602,Q1603 D1601	2SA1163 HAT1081R HAT3019R 1SS302	•
			D1608,D1609,D1617,D1618 D1610,D1611,D1616,D1619,D1620 D1604,D1612 D1602,D1606,D1607,D1614,D1615 D1621,D1622	EC10UA20 EC11FS2 MA126 UDZS15B UDZS24B	E
			COILS AND FILTERS L1601,L1602	ATH1135	
			CAPACITORS C1609,C1615 (0.47/100V) C1605,C1607,C1608,C1613,C1614	ACE1171 ACG1101	•
			(0.01/100V) C1601,C1602 (56/80V) C1618 (47/6.3V)	ACH1347 ACH1357	
			C1603 (47/16V) C1604,C1606,C1612	ACH1391 CKSSYF104Z16	F

PDP-434PU

Mark No.	<u>Description</u>	Part No.	Mark No. Description	Part No.
			C3254,C3260,C3265	CCSRCH331J50
RESISTORS			C3208,C3209,C3219,C3220,C3227	CCSRCH390J50
R1631 (10,1/2)		ACN1174	C3229,C3238,C3240,C3252,C3253	CCSRCH390J5
Other Resistors		RS1/16S###J	C3263,C3264	CCSRCH390J5
			C3203,C3264 C3202,C3213,C3224,C3235,C3246	CKSRYB105K6F
			C3257	CKSRYB105K6
42 CC A	NI A ACCV		03201	ONONIBIOSINO
	N A ASSY		RESISTORS	
<u>SEMICONDU</u>			R3202,R3210,R3216,R3224,R3229	RAB4C221J
IC3001-IC3006		SN755864APZP	R3235	RAB4C221J
D3001		KU10N16	Other Resistors	RS1/16S###J
CADACITODO				
CAPACITORS	-	1001000	<u>OTHERS</u>	
C3001,C3002,C (0.1/250V)	3012,03013	ACG1088	CN3201 15P CONNECTOR	AKP1218
C3023,C3024,C	`3034 C3035	ACG1088	K3203,K3208,K3214,K3216,K3218	AKX9002
(0.1/250V)	,5054,C5055	ACG 1000	TEST PIN	
C3045,C3046,C	3056.C3057	ACG1088	K3220,K3221 TEST PIN	AKX9002
(0.1/250V)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7.00.000		
00005 00000	20040 00040 00000	0000011404150		
	C3016,C3019,C3026	CCSRCH101J50 CCSRCH101J50	X CONNECTOR A AS	SY
C3029,C3037,C	C3040,C3048,C3051	CCSRCH101J50 CCSRCH101J50	This assembly has no service part.	
•	C3033,C3044,C3050	CCSRCH181J50	The accounty has no control part	
C3062	75055,05044,05050	CCSRCH181J50		
			v	
C3006,C3011,C	·	CCSRCH331J50	X CONNECTOR B AS	SY
	C3042,C3043,C3049	CCSRCH331J50	This assembly has no service part.	
C3055,C3061,C		CCSRCH331J50		
	C3020,C3021,C3028	CCSRCH390J50 CCSRCH390J50		
C3030,C3039,C	C3041,C3053,C3054	CCSRCH390J50	DANIEL IE 400V	
C3064,C3065		CCSRCH390J50	PANEL IF ASSY	
•	C3025,C3036,C3047	CKSRYB105K6R3	[PANEL IF BLOCK]	
C3058		CKSRYB105K6R3	<u>SEMICONDUCTORS</u>	
			IC4002	24LC02B(I)SN
RESISTORS			⚠ IC4003	PQ033EZ01ZP
R3003,R3011,F	R3017,R3025,R3030	RAB4C221J	IC4006	TC74VHC541F
R3036		RAB4C221J	Q4007	DTA143EUA
Other Resistors		RS1/16S###J	Q4004,Q4008,Q4009,Q4012	DTC143EUA
OTUEDO			Q4014-Q4016	DTC143EUA
OTHERS	ONINECTOR	ALCDAGAG	Q4005,Q4006,Q4010,Q4013,Q4017	RN1901
CN3001 15P C		AKP1218	Q4011	RN2901
TEST PIN	(3009,K3015,K3017	AKX9002	Q4001	SM6K2
K3019,K3021 T	FST PIN	AKX9002	D4006	1SS355
10010,10021	2011111	711010002		
			D4001-D4004,D4007	RB751V-40
43 SCA	N B ASSY		⚠ D4005	UDZS5.1B
SEMICONDU	CTORS		COILS AND FILTERS	
IC3201-IC3206		SN755864APZP	F4001,F4002	ATF1194
D3201		KU10N16	L4001	LCTAW221J322
CAPACITORS			<u>CAPACITORS</u>	
	C3212,C3222,C3223	ACG1088	C4005,C4006	CCSRCH100D5
(0.1/250V) C3233,C3234,C	`3244 C224E	ACG1088	C4019	CCSRCH101J5
(0.1/250V)	<i>1</i> 0244,00240	AUG 1000	C4009,C4020	CCSRCH471J5
C3255,C3256,C	3266	ACG1088	C4011,C4018,C4021 C4003,C4015	CEAT101M10 CEAT101M16
(0.1/250V)			C4003,C4015	CEAL IUINITO
,			C4004,C4010,C4012,C4014	CKSRYB103K50
	C3214,C3215,C3226	CCSRCH101J50	C4016,C4024,C4041	CKSSYF104Z16
	C3239,C3247,C3251	CCSRCH101J50	C4017	CKSRYF105Z10
C3258,C3259	22222 02242 02242	CCSRCH101J50		
U3206,U3217,C	C3232,C3243,C3249	CCSRCH181J50 CCSRCH181J50	<u>RESISTORS</u>	
		UCURUTION 1000	R4006	RAB4C101J
C3261				
C3261	3216 C3221	CCSRCH331.I50	Other Resistors	RS1/16S###J
C3261 C3205,C3210,C	C3216,C3221 C3241,C3242,C3248	CCSRCH331J50 CCSRCH331J50	Other Resistors OTHERS	RS1/16S###J

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Mark No. Description	Part No.	Mark No. Description	Part No.	
CN4004 114P FFC CONNECTOR	AKM1216	CN4801 6P FFC CONNECTOR	AKM1208	
CN4003 DVI SOCKET (24P)	AKP1216			
CN4002 SOCKET (20P) K4002-K4012 TEST PIN	AKP1226 AKX9002			А
CN4006 3P TOP POST	B3B-EH			
		KEY CONTROL ASSY		
[TMDS RX BLOCK]		<u>SEMICONDUCTORS</u>		
SEMICONDUCTORS		IC4851 D4851-D4853,D4855,D4856	PD5719A 1SS302	_
IC4201	24LC01B	D4031-D4033,D4033,D4030	133302	
IC4206 IC4205	BA8274F PST3628UR	<u>CAPACITORS</u>		
IC4203 IC4202	SII169CTG100	⚠ C4856-C4858 C4854	CCSRCH101J50 CEAT470M50	
Q4203	DTC143EUA	C4853	CKSRYB103K50	
Q4215	SM6K2			В
D4203,D4204	1SS355	RESISTORS	DAD4C400 I	
D4202	UDZS6.8B	R4858 Other Resistors	RAB4C182J RS1/16S###J	
COILS AND FILTERS				
F4201-F4204	ATF1194	OTHERS	1001100	
L4201	ATH1132	⚠ X4851 CERALOCK CN4851 6P FFC CONNECTOR	ASS1162 VKN1596	
CAPACITORS		or lost of the confidence	***************************************	
C4208,C4215,C4218,C4222,C4230	CCSRCH331J50			
C4262	CCSRCH471J50	PANEL IR ASSY		
C4207,C4210,C4232,C4233,C4236 C4241,C4244,C4258	CCSRCH820J50 CCSRCH820J50	SEMICONDUCTORS		
C4212,C4239,C4242,C4246	CEAT101M10	Q4901	2SC4116	С
0.4000 0.4007 0.4000	OF AT 470M40	D4902	1SS302	
C4202,C4237,C4238 C4260	CEAT470M10 CKSRYB472K50	D4901	1SS355	
C4205,C4206,C4217,C4267	CKSRYF105Z10	<u>CAPACITORS</u>		
C4203,C4204,C4209,C4211,C4213 C4234,C4235,C4240,C4243,C4245	CKSSYF104Z16 CKSSYF104Z16	C4901	CEVW470M6R3	_
C4234,C4233,C4240,C4243,C4243	CK331F104Z10	C4903 C4902	CKSRYB102K50 CKSRYB103K50	-
C4247,C4252,C4256,C4259,C4261	CKSSYF104Z16	C4904	CKSSYF104Z16	
C4271	CKSSYF104Z16	DECICTORS		
<u>RESISTORS</u>		RESISTORS Other Resistors	RS1/16S###J	
R4241	RAB4C220J	Carlot reduction	1101/100////	D
R4213-R4218,R4245,R4247 R4253-R4255,R4257	RAB4C470J RAB4C470J	<u>OTHERS</u>	DD1	
R4250	RS1/16S3900F	U4901 REMOTE RECEIVER UNIT	RPM7240-H4	
Other Resistors	RS1/16S###J			
<u>OTHERS</u>		DIGITAL VIDEO ACCV		_
K4203,K4207 TEST PIN	AKX9002	DIGITAL VIDEO ASSY		
		[DIGITAL IF BLOCK] COILS AND FILTERS		
		F5001,F5002,F5004	ATF1194	
PANEL LED ASSY				
<u>SEMICONDUCTORS</u>		<u>RESISTORS</u> R5101-R5115.R5131	RAB4C470J	Е
D4751 D4752	SML-310MT SML-311UT	Other Resistors	RS1/16S###J	_
D4732	SIVIL-STIUT			
<u>CAPACITORS</u>		OTHERS CN5001 114P FFC CONNECTOR	AKM1216	
1 C4751-C4753	CCSRCH101J50	K5002-K5004,K5007 TEST PIN	AKX9002	
OTHERS		CN5002 10P CONNECTOR	B10B-PH-SM3	
CN4751 CONNECTOR 3P	B3B-ZR-3.4			
		[MODULE UCOM BLOCK]		
		SEMICONDUCTORS		
PANEL KEY ASSY		IC5206 IC5201	24LC04B(I)SN M30626FHPGP-P	_
SWITCHES AND RELAYS		IC5201 IC5205	PST3628UR	F
S4801-S4806	VSG1024	IC5208	TC74VHC08FT	
OTHERS		IC5213	TC74VHC123AFT	
		PDP-434PU		41
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IC5214,IC5215	on Part No.	Mark No. Description	Part No.
100044 100040	TC74VHC32FT	[IC4 BLOCK]	
IC5211,IC5212	TC74VHC541FT	<u>SEMICONDUCTORS</u>	
IC5209	TC7W126FU	IC5401	PD5856A
Q5201	2SJ461	D5401	SML-310LT
D5207-D5212	1SS301	D5402	SML-310MT
D5217,D5218	1SS355	COULS AND FUTERS	
D5201	SML-310LT	COILS AND FILTERS F5401,F5403,F5409,F5410	ATF1194
SWITCHES AND RELAYS	S	, , ,	7
S5201	ASH1047	<u>CAPACITORS</u> C5401,C5413,C5417,C5424	ACH1396
CAPACITORS		(100/6.3V)	
C5213,C5225 (47/6.3V)	ACH1357	C5434,C5435	CKSRYB102K
, ,		C5402-C5412,C5414-C5416	CKSSYF104Z
C5206,C5223,C5231	CKSRYB102K50	C5418-C5423,C5425-C5431	CKSSYF104Z
C5245-C5264	CKSRYB102K50		
C5232	CKSRYB104K16	RESISTORS	
C5230	CKSRYB105K6R3		RAB4C101J
C5205	CKSRYB472K50	R5406,R5421 R5408-R5413,R5415,R5416,R5419	RAB4C101J RAB4C220J
C5201-C5204,C5208,C5210-C	5212 CKSSYF104Z16	R5422	RAB4C220J
		R5405	RS1/16S5601F
C5218,C5224,C5226,C5227 C5243,C5244	CKSSYF104Z16 CKSSYF104Z16	Other Resistors	RS1/16S###J
	-	OTHERS	
RESISTORS		K5401 TEST PIN	AKX9002
R5209,R5211,R5212,R5235	RAB4C101J	NOTO I LOI FIN	71\73UUZ
R5254,R5255,R5265,R5266	RAB4C101J		
R5205	RAB4C103J		
R5270,R5271	RAB4C472J		
R5256,R5257	RAB4C474J	[ADDRESS CN BLOCK]	
Other Resistors	RS1/16S###J	RESISTORS	
Office Vesignors	V91/109###J	Other Resistors	RS1/16S###J
OTHERS		OTHERS	
CN5201 PLUG 8-P	AKM1225	<u>OTHERS</u>	
K5201 TEST PIN	AKX9002	CN5521 50P CONNECTOR	AKM1201
1 X5201 CERAMIC RESONATO	DR ASS1178	⚠ CN5501-CN5508 40P CONNECTOR	AKM1217
CN5202 3P PH CONNECTOR	R B3B-PH-SM3	CN5511 30P FFC CONNECTOR	AKM1218
[PANEL FLASH BLOCK]		[DIGITAL DD CON BLOCK]	
<u>SEMICONDUCTORS</u>		<u>SEMICONDUCTORS</u>	
IC5305 75PFTN	MBM29PL160BD-	<u></u> IC5602	PQ05DZ11
	DCTCCACLID	⚠ IC5603	PQ09DZ11
IC5303	PST3612UR	∆ U5601	AXY1066
IC5301	PST3628UR	Q5601,Q5603	HN1C01FU
IC5302	TC74VHC08FT	D5602,D5603,D5609,D5610	1SS355
Q5301	RN1901		. 3 3 0 0 0
D5301-D5310	1SS302	D5601 D5604	HZU2.2B UDZS5.1B
CADACITODS			05200.15
<u>CAPACITORS</u>		<u>CAPACITORS</u>	
	CCSRCH470J50	C5601,C5603,C5607,C5614,C5616	ACH1394
C5320	CKSRYB102K50	(100/16V)	- ··-•·
C5320 C5304,C5307		,	01/05\/5.4001/
	CKSRYB104K16	C5602 C5604 C5615 C5617	(KCDAB1U5E
C5304,C5307	CKSRYB104K16 CKSRYB472K50	C5602,C5604,C5615,C5617	
C5304,C5307 C5311,C5314	CKSRYB472K50	C5602,C5604,C5615,C5617 C5605,C5606,C5610	
C5304,C5307 C5311,C5314 C5303,C5306	CKSRYB472K50	C5605,C5606,C5610 RESISTORS	CKSSYF104Z
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5	CKSRYB472K50 5313 CKSSYF104Z16	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W)	CKSSYF104Z ² ACN1162
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5	CKSRYB472K50 5313 CKSSYF104Z16	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W)	CKSSYF104Z ACN1162 ACN1168
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W)	CKSSYF104Z
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS R5317,R5318	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16 RAB4C101J	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W) Other Resistors	CKSSYF104Z ACN1162 ACN1168
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W) Other Resistors OTHERS	CKSSYF104Z ACN1162 ACN1168
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS R5317,R5318 Other Resistors	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16 RAB4C101J	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W) Other Resistors	CKSSYF104Z ACN1162 ACN1168 RS1/16S###J
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS R5317,R5318 Other Resistors	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16 RAB4C101J RS1/16S###J	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W) Other Resistors OTHERS ⚠ CN5601 11P CONNECTOR	ACN1162 ACN1168 RS1/16S###J
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS R5317,R5318 Other Resistors OTHERS CN5301 PLUG 15-P	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16 RAB4C101J RS1/16S###J	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W) Other Resistors OTHERS	CKSSYF104Z ACN1162 ACN1168 RS1/16S###J
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS R5317,R5318 Other Resistors	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16 RAB4C101J RS1/16S###J	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W) Other Resistors OTHERS ⚠ CN5601 11P CONNECTOR	ACN1162 ACN1168 RS1/16S###J
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS R5317,R5318 Other Resistors OTHERS CN5301 PLUG 15-P	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16 RAB4C101J RS1/16S###J AKM1232 AKX9002	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W) Other Resistors OTHERS ⚠ CN5601 11P CONNECTOR	ACN1162 ACN1168 RS1/16S###J
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS R5317,R5318 Other Resistors OTHERS CN5301 PLUG 15-P K5301 TEST PIN A X5302 CRYSTAL OSCILLATOR	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16 RAB4C101J RS1/16S###J AKM1232 AKX9002 R ASS1174	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W) Other Resistors OTHERS ⚠ CN5601 11P CONNECTOR ⚠ CN5602 7P CONNECTOR	ACN1162 ACN1168 RS1/16S###J B11B-PH-SM3 B7B-PH-SM3
C5304,C5307 C5311,C5314 C5303,C5306 C5301,C5302,C5305,C5309,C5 C5316 RESISTORS R5317,R5318 Other Resistors OTHERS CN5301 PLUG 15-P K5301 TEST PIN	CKSRYB472K50 5313 CKSSYF104Z16 CKSSYF104Z16 RAB4C101J RS1/16S###J AKM1232 AKX9002 R ASS1174	C5605,C5606,C5610 RESISTORS R5601 (1,1/2W) R5627 (3.3,1/2W) Other Resistors OTHERS ⚠ CN5601 11P CONNECTOR	ACN1168 RS1/16S###J B11B-PH-SM3 B7B-PH-SM3

PDP-434PU

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Mark No. L3701,L3702	Description	Part No. ATF1206	Mark No. Description	Part No.	
		ATT 1200			
CAPACITOR			40 V DDIVE 400V		
⚠ C3701-C3704		CCSRCH101J50	43 X DRIVE ASSY		
C3713-C3716		CCSRCH221J50	[X LOGIC BLOCK]		
C3709,C3710		CKSRYB332K50	SEMICONDUCTORS		
C3711,C3712		CKSRYF473Z50	IC1002	TC74ACT540FT	
			IC1002	TC74ACT540FT	
<u>RESISTORS</u>			IC1003	TC74VHC08FT	
R3701-R3704	ļ	RD1/2MMF100J	101000	10741100011	
			CAPACITORS		
<u>OTHERS</u>			C1001	CEHAT470M25	
J3701 6P HO	USING WIRE	ADX2838	C1001 C1002-C1004	CKSRYB104K16	
CN3701 SPE	AKER TERMINAL	AKE1060	C1002-C1004	CRORTDTO4RTO	
∴ 3701 SPEAKI	ER SHIELD A	ANK1710	DECICTORS		
∴ 3702 SPEAKI	ER SHIELD B	ANK1711	RESISTORS	D.1.D.1.D.1.	
			R1001,R1002,R1005	RAB4C470J	
			R1003,R1004,R1007	RAB4C472J	
		_	OTHERS		
_	DIO AMP ASS	Y	CN1001 30P FFC CONNECTOR	AKM1218	
SEMICONDU	<u>JCTORS</u>		SITION SOLITO CONNECTOR	/ W WV 12 10	
IC3502		BD3869AS			
IC3504		LA4625			
IC3501		NJM2195L	IDECONANCE DI OCUI		
IC3503		NJM7809FA	[RESONANCE BLOCK]		
	2,Q3507,Q3510,Q3511	2SA1162	<u>SEMICONDUCTORS</u>		
Q0001,Q0002	-, 40007, 40010, 40011	20/11/02	IC1103	BA10393F	
Q3503,Q3504	1 03508	2SC2712	IC1101,IC1102	TND506MD	
Q3512	r,Q3300	DTC124EK	Q1113	2SC2412K	
D3501-D3504	Ī	1SS355	Q1102,Q1103,Q1111,Q1112,Q1114	2SK3560	
D0001-D0004	•	100000	Q1105,Q1106,Q1108,Q1109	2SK3723	
CAPACITOR	S				
C3525	<u></u>	CCSRCH221J50	Q1101,Q1104,Q1107,Q1110	CPH5506	
	I,C3520,C3528-C3532	CEAT100M50	D1109,D1122	1SS302	
	· · · · · · · · · · · · · · · · · · ·		D1101,D1102,D1104,D1105	EC11FS4	
	s,C3549,C3557,C3564	CEAT101M16	D1107,D1108,D1111,D1114-D1117	EC11FS4	
C3519 C3536		CEAT1R0M50	D1120,D1121,D1127,D1128	EC11FS4	
C3536		CEAT220M50			
C2527 C2520	•	OF ATODOMEO	D1103,D1106,D1113,D1118	TCU20A30	
C3537,C3538		CEAT2R2M50	D1124,D1125	TCU20A30	
C3551,C3552		CEAT330M25	D1110,D1123	UDZS16B	
C3566		CEHAT101M10			
C3561		CEHAT101M16	COILS AND FILTERS		
C3562,C3565		CEHAT220M50	L1104	ATH1119	
			L1102	ATH1133	
C3559,C3560		CEHAT2R2M50	L1102 L1103,L1105	ATH1133	
C3509		CEHAT331M16	L1103,L1105 L1101	LFEA470J	
C3507		CEHAT471M25	LIIUI	LI LA4100	
C3571		CEHAT472M25	CADACITODS		
C3563		CEHATR47M50	CAPACITORS		
			C1113,C1114,C1126,C1127	ACE1168	
C3512,C3522	,C3572	CFTLA103J50	(3.3/250V)		
C3511,C3513	-C3518,C3533,C3534	CFTLA104J50	C1111,C1124 (100p/630V)	ACG1104	
C3545-C3548	3,C3573-C3576	CFTLA104J50	C1109,C1119 (0.1/630V)	ACG1108	
C3521		CFTLA333J50	C1101,C1105,C1116,C1117	CCSRCH331J50	
C3524		CFTLA334J50			
			C1128,C1130-C1132	CKSRYB104K16	
C3523		CFTLA474J50	C1102,C1118	CKSRYB105K6R3	
	,C3510,C3527,C3535	CKSRYB103K50	C1104,C1108,C1115,C1122	CKSYB105K25	
C3550,C3558		CKSRYB103K50			
C3543,C3544		CQMA222J50	<u>RESISTORS</u>		
233 10,000-14		J J LLL000	R1116,R1122	RS1/10S1003F	
RESISTORS			R1133,R1143-R1145	RS1/10S100J	
R3599-R3602		RD1/2MMF2R2J	R1103,R1106,R1118,R1119,R1153	RS1/10S2R2J	
			R1136	RS1/16S1202F	
Other Resistor	15	RS1/16S###J	R1139	RS1/16S3301F	
OTHERS					
3511 AUDIO I	HEATSINK	ANH1612	R1130	RS1/16S5601F	
CN3504 3P C		B3P-VH	R1134	RS1/16S8201F	
			R1113,R1128	RS1MMF101J	
3512-3515 SC		VBB30P100FNI	VR1101-VR1104	CCP1390	
KIN3001,KIN30	502 WRAPPING TERMI	INALVINI IUO4 -			
	_		PDP-434PU		43
	5	6	7	8	

<u>lark</u> No.	<u>Description</u>	Part No.	Mark No.	Description	Part No.
Other Resistors	3	RS1/16S###J	SEMICONDU	CTORS	
			IC1404		AN1431M
			IC1402		MIP161
			IC1401,IC1403		TLP181(P-GR)
SUS BLOCK	1		Q1401		2SA1037K
	-				
<u>SEMICONDU</u>	CIUKS		Q1402		2SC2412K
IC1202		HCPL-M611	D4407 B4400		E044E00
IC1205		NJM2872F05	D1407,D1408		EC11FS2
IC1203,IC1207	,	STK795-510	D1404		EC8FS6
IC1208		TLP181(P-GR)	D1401,D1403		UDZS5.6B
IC1204,IC1206	;	TND301S			
•			COILS AND F	ILTERS	
Q1207		2SC2412K	L1401		ATH1110
Q1207 Q1203		2SD1898	T1401		ATK1153
			11401		AIRTIOS
Q1302		2SJ522	0.1-1.0:0-0		
Q1301		2SK2503	<u>CAPACITORS</u>	<u>5</u>	
Q1205		2SK2908-01S	C1401,C1402	(22/315V)	ACH1361
			C1404	,	CEHAT101M1
Q1206,Q1208		DTC124EK	C1405		CEHAT101M2
Q1201		HN1B04FU	C1409		CEHAT331M1
D1212		1SS302	C1409 C1403,C1407,0	C1408 C1411	CKSRYB104K
D1211,D1213,I	D1216	1SS355	C 1403, C 1407, C	71700,01411	CINOIN I D IU4N
D1211,D1213,I	- 1210	EC10QS04	04.400		OKODVE404Z
D1201,D1201		LC10Q304	C1406		CKSRYF104Z
D1204,D1301		EC11FS4	P-016-0-		
D1204,D1301		EC8FS6	<u>RESISTORS</u>		
			R1405,R1406,F	R1408-R1410,R1414	RS1/10S3602F
D1208		UDZS5.6B	R1420		RS1/16S1101F
			R1403		RS1/16S2702F
COILS AND F	FILTERS		R1401,R1404		RS1/16S4701F
L1204,L1205		ATH1112	R1417		RS1/16S7500F
L1202		LFEA100J	131417		13 1/103/3001
L1203,L1206		LFEA470J	\/D4.404_(4L)		CCD4200
L1203,L1200		LI LATIOS	VR1401 (1k)		CCP1390
ADACITODO			Other Resistors		RS1/16S###J
CAPACITORS					
C1214-C1217,		ACE1163	<u>OTHERS</u>		
C1233 (0.12/2	50V)	ACE1169	1002 CARD SF	PACER	AEC1957
C1244 (0.1/25	0V)	ACE1170		IRICON SHEET A	AEH1062
C1209 (0.1/63	0V)	ACG1092	1001 PLATE X		ANG2622
C1219,C1231	,	ACH1359	1001 PEATE X		
01210,01201		7.0111000		EAI SIINN A	ANH1613
C1224		CEHAT101M16	1001 SCREW		BMZ30P080FZ
-					
C1301	0.0.0	CEHAT221M25	1002 SCREW		PMB30P060FI
	C1210,C1220,C1223	CEHAT470M25			
C1238,C1239		CEHAT470M25			
C1235		CKSRYB102K50			
			DANEI	SENSOR ASS	V
C1213,C1225,0	C1240,C1241,C1243	CKSRYB104K16			
	C1206,C1212,C1302	CKSRYF104Z50	<u>SEMICONDU</u>	<u>CTORS</u>	
,,		2	IC1072		MM1522XU
RESISTORS			IC1071		MM3012XN
		ACN14400			
R1230	14.0	ACN1166	CAPACITORS	\	
R1208 (10,1/2		ACN1174			ACI 14057
R1304 (560,1/	,	ACN1195	C1075 (47/6.3\	V)	ACH1357
R1305 (1k,1/2)	W)	ACN1198	C1074		CKSRYB103K
R1301,R1302,I		RS1/10S122J	C1071,C1076		CKSRYB104K
,			C1072,C1073		CKSRYF105Z
R1226,R1251		RS1MMF361J			
R1235,R1236		RS2MMF121J	RESISTORS		
Other Resistors	3	RS1/16S###J	R1076,R1078		RS1/16S1001F
Outof Resistors	•	. (Ο 1/ 100πππο	Other Resistors		RS1/16S###J
THERE			Outel Resistors	•	1\01/10\0###J
<u>OTHERS</u>					
KN1201-KN120	*	ANK-142			
(GROUND PL	ATE)				
KN1210-KN12	12,KN1214	ANK-142	43 Y DR	RIVE ASSY	
(GROUND PL	·				
CN1201 12P (B12B-EH	<u>OTHERS</u>	24.050	AEC : 25=
J.1.201 121 (20.11.1201011	J.25 211	2002 CARD SF	-	AEC1957
				IRICON SHEET A	AEH1062
			2001 PLATEY		ANG2557
			2001 DRIVE H	EATSINK A	ANH1613
D-D CON BL	оск]		2001 DRIVE H 2001 SCREW	EATSINK A	ANH1613 BMZ30P080F2

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Mark No.	Description	Part No.	Mark No.	Description	Part No.	
2002 SCREV	V	PMB30P060FNI	R2233		RS1/16S5601F	
			R2242		RS1/16S8201F	Α
			R2215,R2230		RS1MMF101J	
			VR2201-VR2	` '	CCP1390	
[Y LOGIC BI			Other Resisto	ors	RS1/16S###J	
<u>SEMICONDI</u>	<u>JCTORS</u>					
IC2002		TC74ACT540FT				
IC2001,IC200	03	TC74ACT541FT	[Y SUS BLC	CK1		
IC2005		TC74VHC08FT	SEMICOND			
IC2004		TC74VHC541FT	·		LICDL MC44	
Q2001		DTC124EK	IC2302,IC230 IC2305	00	HCPL-M611 NJM2872F05	
CAPACITOR	9		IC2303,IC230	17	STK795-511	
C2001	<u>.o</u>	CEHAT470M16	IC2301,IC230		TND301S	
C2010,C2011		CKSRYB104K16	Q2310	,	2SC2412K	В
C2002-C2006		CKSRYF104Z50				
			Q2303,Q230	7	2SD1898	
RESISTORS			Q2301	_	2SJ522	
R2018,R2019)	RAB4C102J	Q2302,Q230	8,Q2312	2SK3325-Z	
•	,R2013-R2015	RAB4C470J	Q2309		HN1B04FU	
	5,R2012,R2016,R2017	RAB4C472J	D2302		1SS302	
Other Resisto	rs	RS1/16S###J	D2305		EC11FS4	
0711500			D2301		UDZS16B	
<u>OTHERS</u>			D2306,D2318	3	UDZS5.6B	
CN2001 50P	CONNECTOR	AKM1201	•			
			COILS AND	FILTERS		
			L2306,L2307		ATH1112	С
IV RESONA	NCE BLOCK]		L2304		LFEA100J	
SEMICOND			L2308		LFEA101J	
IC2211	<u>JCTORS</u>	BA10393F	L2301,L2302	,L2305	LFEA470J	
IC2211	12	TND506MD	CARACITOR	.		
Q2213	<i>''</i>	2SC2412K	CAPACITOR		AOE4400	•
Q2202,Q2203	3,Q2211,Q2212,Q2214	2SK3560		2,C2326,C2327	ACE1163	-
Q2205,Q2206	6,Q2208,Q2209	2SK3723	(1.5/300V) C2329,C2330) (1.5/300\/)	ACE1163	
			C2314 (0.04		ACE1165	
· · · · · · · · · · · · · · · · · · ·	1,Q2207,Q2210	CPH5506	C2302 (0.1/6		ACG1092	
D2209,D2223		1SS302	(*	,		
	5,D2207,D2208	EC11FS4	C2316,C233		ACH1359	D
D2213,D2214	I,D2216-D2219,D2222	EC11FS4 EC11FS4	C2303 (22/3		ACH1361	D
D2220,D2221		LC111 34	C2336 (220/	,	ACH1393	
D2201.D2206	5,D2211,D2215,D2220	TCU20A30	C2306,C2334		CEHAT221M25	
D2225	, , , , ,	TCU20A30	C2308,C2324	4,C2339,C2340	CEHAT470M16	
D2210,D2224		UDZS16B	C2304,C2320	n C2338	CEHAT470M25	
			•	2,C2323,C2325,C2333	CKSRYB104K16	
COILS AND	<u>FILTERS</u>		C2341	-,0-0-0,0-0-0,0-000	CKSRYB104K16	
L2204		ATH1119	C2301,C2307	7,C2328	CKSRYF104Z50	
L2202		ATH1133				
L2203,L2205		ATH1134	<u>RESISTORS</u>			
L2201		LFEA470J	R2332 (2.2,1	/2W)	ACN1166	
CAPACITOR	S		R2309		RS1MMF132J	Е
-	. <u>3</u> 3,C2226,C2227	ACE1168	R2310,R231		RS1MMF472J	
(3.3/250V)	,,UZZZU,UZZZI	AUL I 100		4,R2322,R2323 2,R2358,R2359	RS3LMF100J RS3LMF1R8J	
` ,	(100p/630V)	ACG1104	KZ340,KZ352	2,112000,112008	NOOLIVIF I KOJ	
C2210,C2223		ACG1108	Other Resisto	ors	RS1/16S###J	
·	5,C2216,C2217	CCSRCH331J50	2or 1100lott			
_			OTHERS			
·	2,C2233,C2235	CKSRYB104K16	KN2301-KN2	305,KN2310	ANK-142	
C2203,C2218		CKSRYB105K6R3	(GROUND F			
C2201,C2208	3,C2215,C2219	CKSYB105K25	KN2312,KN2		ANK-142	
RESISTORS			(GROUND F		B	
R2240,R2241		RS1/10S1003F	CN2301 11F	CONNECTOR	B11B-EH	_
R2244-R2247		RS1/10S1003F RS1/10S100J				F
	5,R2220,R2221,R2253	RS1/10S1003				
R2234	, -,	RS1/16S1202F	[Y SCAN BL	OCK1		
R2235		RS1/16S3301F	LI SCHIN DE	<u></u>		
		Г	PDP-434PU			45
•	5 -	6		7 -	8	

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Mark No.	Description	Part No.		Mark No.	Description	Part No.
SEMICONDUC	TORS			C2405,C2407,	 C2417	CEHAT101M25
		HCPL-M611		02400,02401,	02417	OLI I/ (I TOTIMZO
IC2101,IC2103-I	C2106	HCPL-M611		C2414		CEHAT221M16
IC2108,IC2109				C2410		CEHAT221M16
IC2102,IC2107		TC74ACT540FT		C2410 C2411		CEHAT331M25
COILS AND FI	<u>LTERS</u>			C2420		CEHAT470M2A
L2101-L2103		LFEA100J		C2409,C2419		CKSRYB103K50
CADACITODO				C2402,C2412,	C2413,C2423,C2425	CKSRYB104K16
<u>CAPACITORS</u>				C2431,C2432,	C2434-C2436	CKSRYB104K16
C2104,C2111 (4	,	ACH1392		C2441-C2443		CKSRYB104K16
C2101,C2107,C2		CEHAT221M16		C2415,C2421,	C2428	CKSRYB105K6R
C2102,C2103,C2	2105,C2106	CKSRYB104K16			C2416,C2418,C2426	CKSRYF104Z50
C2108-C2110,C2	2112,C2114	CKSRYB104K16		02404,02400,	02410,02410,02420	OKOKII 104230
				C2429		CKSRYF104Z50
RESISTORS				RESISTORS		
R2121,R2128		RAB4C472J				
Other Resistors		RS1/16S###J		R2429 (180k,	1/2W)	ACN1225
Other Resistors		1101/100###0		R2435,R2439		RS1/10S2202F
0711500				R2402-R2404		RS1/10S3902F
<u>OTHERS</u>				R2442		RS1/16S1201F
CN2101,CN2102	2 15P CONNECTOR	AKM1200		R2468		RS1/16S1202F
				D2424		DC1/16C2001E
				R2424 R2420,R2427,	D2//38	RS1/16S2001F RS1/16S2201F
[Y D-D CON BI	וחכונו			, ,	NZ430	
				R2467		RS1/16S3301F
SEMICONDUC	TORS			R2457-R2460		RS1/16S4701F
IC2410-IC2412		AN1431M		R2506		RS3LMF151J
IC2406		BA10358F				
IC2401		MIP0223SC		VR2401,VR24	02 (1k)	CCP1390
IC2402-IC2405,IC	C2407-IC2409	TLP181(P-GR)		Other Resistors	S	RS1/16S###J
Q2402,Q2407	02.01.102.00	2SA1037K				
QL 102, QL 101		20/1100/11		OTHERS		
Q2410		2SA1163		2401 HEATSIN	AIK	ANH1614
				2401 FICATSII		
Q2417	0440	2SA1535		2401 SCREW		BBZ30P080FZK
Q2411-Q2414,Q	2416	2SC2412K				
Q2405 Q2403		2SC2713 2SD1664				
QZ-100		2001004				
Q2401,Q2404		2SD1898				
Q2415		HN1C01FU				
D2430		1SS301				
D2410,D2419,D2	2436	1SS302				
D2409,D2418	2430	1SS355				
,						
D2404-D2407		EC11FS2				
D2403,D2414		EC11FS4				
D2402		EC8FS6				
D2427		RD91PA				
D2401		U1ZB330				
D2412, D2413, D	12422	UDZS15B				
D2412, D2413, L D2425,D2426	144	UDZS27B				
•						
D2415		UDZS33B				
D2432 D2423,D2431		UDZS4.3B UDZS5.6B				
D2423,D2431		UDZ33.0D				
COILS AND FI	<u>LTERS</u>					
T2402		ATK1156				
T2403		ATK1157				
T2401		ATK1158				
L2402		LFEA100J				
L2401		LFEA101J				
L2403		LFEA470J				
CAPACITORS						
C2406 (100/160	V)	ACH1360				
C2401 (22/315V		ACH1361				
C2401 (22/313V	,	CEHAT100M50				
		CEHAT101M16				
C2403						
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6. ADJUSTMENT



6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ 43 X DRIVE Assy

• When replaced VRN Voltage adjustment.

■ 43 Y DRIVE Assy

• When replaced

No adjustment is required, because necessary adjustment has already been made.

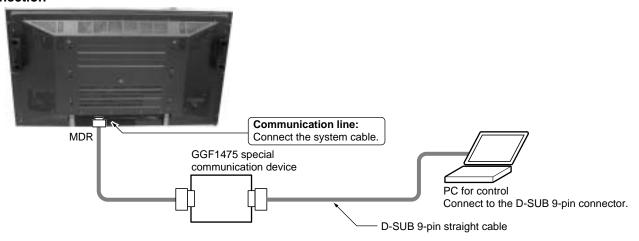
6.2 COMMAND

6.2.1 RS232C COMMAND

• The panel control items for the PDP-434PU system can be controlled with the RS-232C commands by connecting a PC through the GGF1475 special communication device when the Media Receiver is not connected with the PDP.

Note: The special communication device for the PDP-503P cannot be used with this unit, because the control lines within the MDR cable are different.

■ Connection



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• Schematic diagram of Jig

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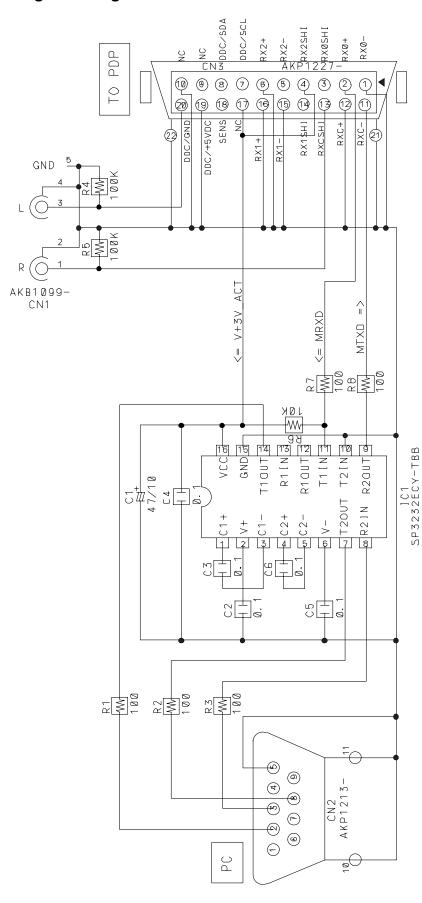
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• RS-232C Commands for the module microcomputer

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Command Name		Command Name	Function		Validity of direct numeric inp		
				Validity	Lower limit		
1		ABL ADJUSTMENT	Adjusting the upper limit of the power	0	0000	255	
2		AUDIO MUTE NO	Turning off the audio muting				
3		AUDIO MUTE YES	Turning on the audio muting		00	450	
5	BAL	BALANCE ADJUSTMENT BASS ADJUSTMENT	Adjusting the audio balance	0	98	158 135	
6	BAS BCP	BACKUP COPY	Adjusting the audio bass Copying the backup data in the EEPROM	- 0	121	135	
7			17.0				
8	DRF	CLEAR TRAP MEMORY DRIVE OFF	Clearing the TRAP log that records detection of opening of the rear cover Driving off				
9		DRIVE ON	Driving on				
10	F50	FREQENCY VIDEO 50Hz	Setting the frequency in Mask mode to 50 Hz (VIDEO)				
11	F60	FREQENCY VIDEO 60Hz	Setting the frequency in Mask mode to 50 Hz (VIDEO)				
12	F61	FREQENCY PC 60Hz	Setting the frequency in Mask mode to 60 Hz (VIDEO)				
13	F70	FREQENCY PC 70Hz	Setting the frequency in Mask mode to 70 Hz (PC)				
14	F72	FREQENCY VIDEO 72Hz	Setting the frequency in Mask mode to 70 Hz (10)				
15	F75	FREQENCY VIDEO 75Hz	Setting the frequency in Mask mode to 75 Hz (VIDEO)				
16	FAJ	FINISH ADJUSTMENT	Z-number F003 to 0003				
17	FCN	FOCUS NO	Turning the FOCUS function off				
18	FCY	FOCUS YES	Turning the FOCUS function on				
19	GAJ	GET ADJUSTMENT	Obtaining various adjustment values				
20	GPD	GET POWER-DOWN	Obtaining various adjustment values Obtaining the power-down-point log				
21		GET PANEL WHITE BALANCE					
22	GS1	GET STATUS 1	Obtaining information on the unit, such as the software version				
23	GS2	GET STATUS 2	Obtaining information on the status of the unit, such as the temperature				
24	GSD	GET SHUT DOWN	Obtaining information on shutdown				
25	LNN	LOUDNESS NO	Turning the Loudness function off				
26	LNY	LOUDNESS YES	Turning the Loudness function on				
27	M00	MASK MODE 0	Turning the Mask function off				
28	M01	MASK MODE 1	White raster (change in luminance level)				
29	M02	MASK MODE 2	White raster-zigzag, exact reversescangraywhite raster				
30	M03	MASK MODE 3	White rasterzigzag, exact reversescangraywhite raster				
31	M10	MASK MODE 10	H ramp (slant 1)				
32	M11	MASK MODE 11	H ramp (slant 4)				
33	M12	MASK MODE 12	H ramp (slant 1 shifting)				
34	M13	MASK MODE 13	H ramp (slant 4 shifting)				
35	M14	MASK MODE 14	V ramp (slant 1)				
36	M15	MASK MODE 15	Slanting ramp				
37	M20	MASK MODE 20	Window (for WB adjustment, Hi = 870, Lo = 102)				
38	M21	MASK MODE 21	Window (for WB adjustment, Hi = 1023, Lo = 102)				
39	M22	MASK MODE 22	Window (for measuring the peak luminance during WB adjustment, Hi = 1023)				
40	M23	MASK MODE 23	Window (for measuring the peak luminance, Hi = 1023, 4%)				
41	M24	MASK MODE 24	Window (for measuring the peak luminance, Hi = 1023, 1.25%)				
42	M25	MASK MODE 25	Window (vertical line with 1/7-width for measuring the stress)				
43	M26	MASK MODE 26	Window (magenta, green, and stripe for check)				
44	M27	MASK MODE 27	Window (green,magenta, and stripe for checker)				
45	M28	MASK MODE 28	Window (black & white [1 x 8], checker, for EMG check)				
46	M29	MASK MODE 29	Window (for WB adjustment, magenta = 512, yellow = 512)				
47	M2E	MASK MODE 2E	Wiper for erasing afterimage				
48	M2F	MASK MODE 2F	Mask for warning of cable disconnection				
49	M30	MASK MODE 30	ColorBar	<u> </u>	_		
50	M31	MASK MODE 31	Slanted lines (for checking cable disconnection)				
51	M51	MASK MODE 51	Raster-white				
52	M52	MASK MODE 52	Raster-red				
53	M53	MASK MODE 53	Raster-green	<u> </u>			
54	M54	MASK MODE 54	Raster-blue				
55	M55	MASK MODE 55	Raster-black				
56	M56	MASK MODE 56	Raster-cyan 1023				
57	M57	MASK MODE 57	Raster-magenta 1023				
58	M58	MASK MODE 58	Raster-yellow 1023				
59	M59	MASK MODE 59	Raster-cyan 274				
60	M60	MASK MODE 60	Raster-flesh color_50				
61	M61	MASK MODE 61	Raster-light purple_50				
62	M62	MASK MODE 62	Raster-sky blue_50				
63	M63	MASK MODE 63	Raster-red 779				
64	M64	MASK MODE 64	Raster-cyan 218				
65	M65	MASK MODE 65	Raster-cyan 448				

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		Command Name	Function	Validity of direct numeric input			
		Command Name	Function	Validity	Lower limit	Upper limit	
66	M66	MASK MODE 66	Raster-flesh color_43				
67	M67	MASK MODE 67	Raster-red 640				
68	M68	MASK MODE 68	Raster-magenta 98				
69	M69	MASK MODE 69	Raster-sky blue 1_43				
70	M70	MASK MODE 70	Raster-sky blue 2_43				
71	M71	MASK MODE 71	Raster-light purple_43				
72	M72	MASK MODE 72	Raster-blue 60				
73	M73	MASK MODE 73	Raster-gray 512 (reservation)				
74	M74	MASK MODE 74	Raster-gray 512 (reservation)				
84	MTN	MUTE NO	Canceling panel muting				
85	MTY	MUTE YES	Panel muting				
86	NMN	NEGATIVE MODE NO	Canceling negative-positive inversion display				
87	NMY	NEGATIVE MODE YES	Negative-positive inversion display				
88	PBH	PANEL BLUE HIGH	Panel white-balance adjustment: Blue highlight	0	000	511	
89	PBL	PANEL BLUE LOW	Panel white-balance adjustment: Blue low light	0	000	999	
90	PCN	PC RGB NO	Setting input-signal type to video				
91	PCY	PC RGB YES	Setting input-signal type to PC				
92	PGH	PANEL GREEN HIGH	Panel white-balance adjustment: Green highlight	0	000	511	
93	PGL	PANEL GREEN LOW	Panel white-balance adjustment: Green low light	0	000	999	
94	PLA	BRIGHT ENHANCE A	Center luminance-compensation function on (no correspondence with APL)		- 000	000	
95	PLB	BRIGHT ENHANCE B	Center luminance-compensation function on (in correspondence with APL)				
96	PLN	BRIGHT ENHANCE NO	Center luminance-compensation function off				
97	POF	POWER OFF	Power off				
98	PON	POWER ON	Power on				
99	PRH	PANEL RED HIGH	Panel white balance adjustment-red highlight	0	000	511	
100	PRL	PANEL RED LOW	Panel white-balance adjustment: Red low light	0	000	999	
	SCN	SYSTEM CABLE NO	, ,		000	999	
101		SYSTEM CABLE NO	Prohibiting monitoring of cable-disconnection detection				
102	SCY	!	Permitting monitoring of cable-disconnection detection				
103	SRN	SRS NO	SRS function off				
104	SRY	SRS YES	SRS function on				
105	TBN	TRUBASS NO	TruBass function off				
106	TBY	TRUBASS YES	TruBass function on		101	40=	
107	TRE	TREBLE ADJUSTMENT	Audio treble adjustment	0	121	135	
108	TSN	TRAP SW NO	Prohibiting detection of opening of the rear case				
109	TSY	TRAP SW YES	Permitting detection of opening of the rear case				
110	UAJ	UN-ADJUSTMENT	Z-number 0003 to F003				
111	VOF	Vofs ADJUSTMENT	Vofs voltage reference-value adjustment	0	000	255	
112	VOL	VOLUME	Audio volume adjustment	0	000	060	
113	VSU	Vsus ADJUSTMENT	Vsus voltage reference-value adjustment	0	000	255	
114	XD1	XSUS-D-1	XSUS-D-1 adjustment	0	000	255	
115	XD2	XSUS-D-2	XSUS-D-2 adjustment	0	000	255	
116	XU1	XSUS-U-1	XSUS-U-1 adjustment	0	000	255	
117	XU2	XSUS-U-2	XSUS-U-2 adjustment	0	000	255	
118	YD1	YSUS-D1-1	YSUS-D1-1 adjustment	0	000	255	
119	YD2	YSUS-D1-2	YSUS-D1-2 adjustment	0	000	255	
120	YD3	YSUS-D2-1	YSUS-D2-1 adjustment	0	000	255	
121	YD4	YSUS-D2-2	YSUS-D2-2 adjustment	0	000	255	
122	YU1	YSUS-U-1	YSUS-U-1 adjustment	0	000	255	
123	YU2	YSUS-U-2	YSUS-U-2 adjustment	0	000	255	

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■ Command description

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= 0011111111111 1100011 pt.1011						
Command	Function					
GAJ	Obtaining various adjustment values					
GPD	Obtaining power-down-point log					
GPW	Obtaining panel white-balance adjustment values					
GS1	Obtaining information on the unit, such as the software version					
GS2	Obtaining information on the status of the unit					
GSD	Obtaining information on shutdown					

GAJ: Obtaining data on ABL setting values, electronic-control adjustment values, and drive-system adjustment values

Order	Data	Size	Remarks
1	ABL table currently used	3 bytes	AB1 - AB3
2	Upper limit of power	3 bytes	000 - 255
3	Vsus adjustment value	3 bytes	000 - 255
4	Vofs adjustment value	3 bytes	000 - 255
5	X-SUS-U1 adjustment value (XU1)	3 bytes	000 - 255
6	X-SUS-U2 adjustment value (XU2)	3 bytes	000 - 255
7	X-SUS-D2 adjustment value (XD2)	3 bytes	000 - 255
8	X-SUS-D1 adjustment value (XD1)	3 bytes	000 - 255
9	Y-SUS-U1 adjustment value (YU1)	3 bytes	000 - 255
10	Y-SUS-U2 adjustment value (YU2)	3 bytes	000 - 255
11	Y-SUS-D1-2 adjustment value (YD2)	3 bytes	000 - 255
12	Y-SUS-D1-1 adjustment value (YD1)	3 bytes	000 - 255
13	Y-SUS-D2-2 adjustment value (YD4)	3 bytes	000 - 255
14	Y-SUS-D2-1 adjustment value (YD3)	3 bytes	000 - 255

Note: Ignore the 2-byte checksum at the end.

GPD: Obtaining power-down-point log on the panel

Order	Data	Size	Remarks
1	Latest "1st PD" data	1 byte	0-C or F
2	Latest "2nd PD" data	1 byte	0-C or F
3	Data of hour meter for the latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
4	Data on temperature for the latest PD (TEMP1)	3 bytes	000 - 255
5	Second latest "1st PD" data	1 byte	0-C or F
6	Second latest "2nd PD" data	1 byte	0-C or F
7	Data of hour meter for the second latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
8	Data on temperature for the second latest PD (TEMP1)	3 bytes	000 - 255
9	Third latest "1st PD" data	1 byte	0-C or F
10	Third latest "2nd PD" data	1 byte	0-C or F
11	Data of hour meter for the third latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
12	Data on temperature for the third latest PD (TEMP1)	3 bytes	000 - 255
13	Fourth latest "1st PD" data	1 byte	0-C or F
14	Fourth latest "2nd PD" data	1 byte	0-C or F
15	Data of hour meter for the fourth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Data on temperature for the fourth latest PD (TEMP1)	3 bytes	000 - 255
17	Fifth latest "1st PD" data	1 byte	0-C or F
18	Fifth latest "2nd PD" data	1 byte	0-C or F
19	Data of hour meter for the fifth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
20	Data on temperature for the fifth latest PD (TEMP1)	3 bytes	000 - 255
21	Sixth latest "1st PD" data	1 byte	0-C or F
22	Sixth latest "2nd PD" data	1 byte	0-C or F
23	Data of hour meter for the sixth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
24	Data on temperature for the sixth latest PD (TEMP1)	3 bytes	000 - 255
25	Seventh latest "1st PD" data	1 byte	0-C or F
26	Seventh latest "2nd PD" data	1 byte	0-C or F
27	Data of hour meter for the seventh latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
28	Data on temperature for the seventh latest PD (TEMP1)	3 bytes	000 - 255
29	Eighth latest "1st PD" data	1 byte	0-C or F
30	Eighth latest "2nd PD" data	1 byte	0-C or F
31	Data of hour meter for the eighth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
31	Data on temperature for the eighth latest PD (TEMP1)	3 bytes	000 - 255

Notes: • Ignore the 2-byte checksum at the end. • For details, see "Description on power-down."

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• Description on power-down

Data	Power-down Point
0	No power-down
1	Not used (for MR-POWER)
2	Panel-POWER SUPPLY
3	SCAN
4	SCN-5V
5	Y-DRIVE
6	Y-DCDC
7	Y-SUS
8	ADR
9	X-DRIVE
Α	X-DCDC
В	X-SUS
С	DIG-DCDC
D	Reservation
Е	Reservation
F	Power-down point unidentified

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GPW: Obtaining panel white-balance adjustment values

Order	Data	Size	Remarks
1	W/B table currently used	3 bytes	PT1 - PT3
2	Main contrast	4 bytes	0000 - 0511
3	Red contrast of W/B adjustment value	4 bytes	0000 - 0511
4	Green contrast of W/B adjustment value	4 bytes	0000 - 0511
5	Blue contrast of W/B adjustment value	4 bytes	0000 - 0511
6	Main brightness	4 bytes	0000 - 1023
7	Red brightness of W/B adjustment value	4 bytes	0000 - 1023
8	Green brightness of W/B adjustment value	4 bytes	0000 - 1023
9	Blue brightness of W/B adjustment value	4 bytes	0000 - 1023

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Note: Ignore the 2-byte checksum at the end.

GS1: Obtaining information on the unit, such as the software version (1)

Order	Data	Size
1	Display data	3 bytes
2	Version of the module microcomputer	4 bytes
3	IC4-MANTA version	4 bytes
4	Sequence version (43VIDEO)	4 bytes
5	Sequence version (43PC)	4 bytes
6	Sequence version (50VIDEO)	4 bytes
7	Sequence version (50PC)	4 bytes
8	Version of the IF microcomputer	4 bytes
9	Version of the main microcomputer	4 bytes
10	IC3-MANTA version	4 bytes
11	Version of the OSD	4 bytes

GS6: Virsion (2)

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Order	Data	Size	
1	Display data	3 bytes	
2 (*1)	Version of DTV	4 bytes	
3 (*1)	Version of CC	4 bytes	
4 (*2)	PC - CARD	8 bytes	
5 (*2)	TEXT	60 bytes	

(*1) PU ONLY : Order 4,5 ** (*2) PE ONLY : Order 2,3 **

Note: Ignore the 2-byte checksum at the end.

(Reference) GS2: Obtaining information on the status of the unit

Order	Data	Size	Remarks
1	Notifying that the unit is shifting to Standby mode	1 byte	1: OK for shifting to Standby
2	Whether or not the main unit has been adjusted	1 byte	0: Adjusted, 1: Not adjusted
3	With/without backup for adjustment values	1 byte	0: With backup, 1: Without backup
4	Data on power-down	2 bytes	1st byte: 1stPD, 2nd byte: 2ndPD
5	Data on temperature (TEMP1)	3 bytes	0: Normal, 1: SD process completed, 2: In the process of SD warning
6	Abnormality in RST2 (power decrease of DC-DC converter)	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
7	IC4 communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
8	EEPROM communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
9	Audio failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
10	Volume IC communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
11	Backup ROM communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
12	Data on temperature (TEMP1) not obtained	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
13	Operational status of panel protection mechanism	1 byte	0: Protection mechanism not activated, 1: Protection mechanism activated
14	Reservation	9 bytes	******
15	Hour meter	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute

Notes: • Ignore the 2-byte checksum at the end.
• The data expected to be used for service may be "5. Data on temperature" and "15. Hour meter".

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GSD: Obtaining information on shutdown

Order	Data	Size	Remarks
1	Latest SD data	1 byte	0 - 5
2	Latest SD subcategory data	1 byte	0 - 2
3	Data of hour meter for the latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
4	Data on temperature for the latest SD (TEMP1)	3 bytes	000 - 255
5	Second latest SD data	1 byte	0 - 5
6	Second latest SD subcategory data	1 byte	0 - 2
7	Data of hour meter for the second latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
8	Data on temperature for the second latest SD (TEMP1)	3 bytes	000 - 255
9	Third latest SD data	1 byte	0 - 5
10	Third latest SD subcategory data	1 byte	0 - 2
11	Data of hour meter for the third latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
12	Data on temperature for the third latest SD (TEMP1)	3 bytes	000 - 255
13	Fourth latest SD data	1 byte	0 - 5
14	Fourth latest SD subcategory data	1 byte	0 - 2
15	Data of hour meter for the fourth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Data on temperature for the fourth latest SD (TEMP1)	3 bytes	000 - 255
17	Fifth latest SD data	1 byte	0 - 5
18	Fifth latest SD subcategory data	1 byte	0 - 2
19	Data of hour meter for the fifth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
20	Data on temperature for the fifth latest SD (TEMP1)	3 bytes	000 - 255
21	Sixth latest SD data	1 byte	0 - 5
22	Sixth latest SD subcategory data	1 byte	0 - 2
23	Data of hour meter for the sixth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
24	Data on temperature for the sixth latest SD (TEMP1)	3 bytes	000 - 255
25	Seventh latest SD data	1 byte	0 - 5
26	Seventh latest SD subcategory data	1 byte	0 - 2
27	Data of hour meter for the seventh latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
28	Data on temperature for the seventh latest SD (TEMP1)	3 bytes	000 - 255
29	Eighth latest SD data	1 byte	0 - 5
30	Eighth latest SD subcategory data	1 byte	0 - 2
31	Data of hour meter for the eighth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
32	Data on temperature for the eighth latest SD (TEMP1)	3 bytes	000 - 255
NI-1	• Ignore the 2-byte checksum at the end		

Notes: • Ignore the 2-byte checksum at the end.
• For details, see "Description on shutdown".

• Description of shutdown

Data	Factors of shutdown
0	No abnormality
1	IC4
2	Module microcomputer IIC
3	Abnormality in RST2 (power decrease of DC-DC converter)
4	Panel having high temperature
5	Audio failure (speakers short-circuited)
6	Reservation
7	Reservation
8	Reservation
9	Reservation
Α	Reservation
В	Reservation
С	Reservation
D	Reservation
Е	Reservation
F	Reservation

• Module microcomputer IIC: Data on SD subcategory

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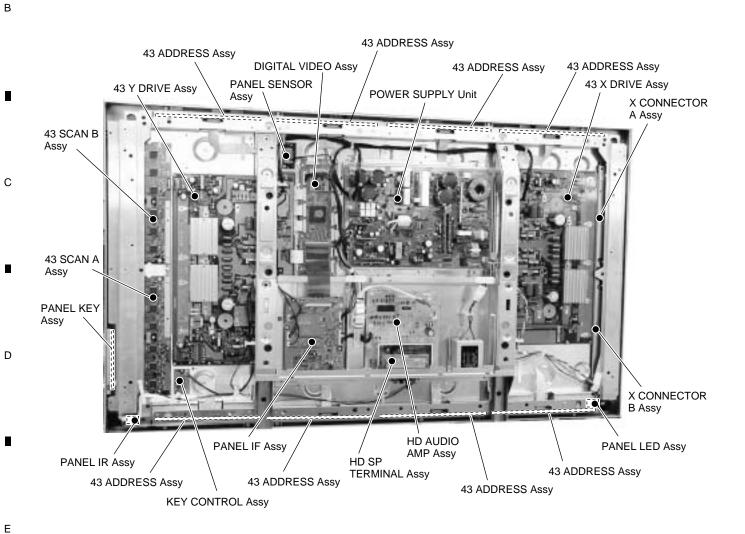
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Data	Factors of shutdown
0	No subcategory
1	EEPROM (DIGITAL VIDEO Assy : IC5206)
2	EEPROM (PANEL IF Assy : IC4002)
3	Volume IC
4	Reservation
5	Reservation
6	Reservation
7	Reservation
8	Reservation
9	Reservation
Α	Reservation
В	Reservation
С	Reservation
D	Reservation
Е	Reservation
F	Reservation

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PCB LOCATION



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Rear view

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7.1.2 DIAGNOSIS OF SHUTDOWN/POWER-DOWN INDICATED BY LEDS

• Operation statuses indicated by LEDs

		MR-LED	PANEL-LED	
Standby	RED GREEN			
Power on	RED GREEN			
MR-AC power off	RED GREEN		1.0\$ 1.0\$	Normal
P-AC power off	RED GREEN	1.0\$ 1.0\$		В
MR power-down	RED 0.9	3.08]
MR shutdown	RED GREEN 0.5	5S 0.5S 0.5S 3.0S		Abnormality in MR
MR modification	RED GREEN			•
P-power-down	RED GREEN		0.5\$ 0.5\$ 0.5\$ 3.0\$	
P-shutdown	RED GREEN		0.5\$ 0.5\$ 0.5\$ 3.0\$	Abnormality C in the panel
P-modification	RED GREEN			
Disconnection of the system cable	RED GREEN	1.0\$ 1.0\$	1.0S 1.0S	Disconnection
Power management when the Media Receiver is not connected with the PDP	RED GREEN		1.0\$ 1.0\$	of cable
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Note: "P" stands for panel.

: Lit in red

: Lit in green

: Not lit

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• Identification of locations having abnormality by the number of times the LEDs flash

■On Shutdown and power-down

Shutdown

- Operation: When the microcomputer detects any abnormality, it forcibly turns off the unit.
- LED indication: The green LED flashes.

Power-down

- Operation: When the unit is in emergency status, a protection circuit is activated, and the power is turned off.
- LED indication: The red LED flashes.

0.1	MR-	LED	PANEL-LED				Warning indication
Category	STB	ON	STB	ON	Content	Unit's operation	when the MR is connected
	Lit			1 time	Communication failure of the panel-drive IC	Immediate shutdown	
	Lit			2 times	Communication failure of the module IIC	Immediate shutdown	
	Lit			3 times	Power decrease of the digital DC-DC converter	Immediate shutdown	
	Lit			4 times	Panel having high temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature too high Check temperature around PDP. Check temperature around media receiver. [SD04]
	Lit			5 times	Audio failure	Shutdown 3 seconds after warning	Powering off. Internal protection circuits activated, Is there a short in speaker cable ? [SD05]
		6 times	Lit		Communication failure of the module microcomputer	Immediate shutdown	
SD		7 times	Lit		Main 3-wire serial communication in failure	Immediate shutdown	
		8 times	Lit		Communication failure of the main IIC	Immediate shutdown	
		9 times	Lit		Communication failure of the main microcomputer	Immediate shutdown	
		10 times	Lit		Fan in failure	Immediate shutdown	
		11 times	Lit		MR or unit having higher temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature too high Check temperature around PDP. Check temperature around media receiver. [SD11]
		12 times	Lit		Communication failure of the digital tuner	Immediate shutdown	
		13 times	Lit		MR-ASIC power (DC-DC) in failure	Immediate shutdown	
		14 times	Lit		Communication failure of IF-EEPROM	Immediate shutdown	
	1 time		Lit		MR power supply	Immediate power-down	
	Lit		2 times		Panel-POWER SUPPLY	Immediate power-down	
	Lit		3 times		SCAN	Immediate power-down	
	Lit		4 times		SCAN-5V	Immediate power-down	
	Lit		5 times		Y-DRIVE	Immediate power-down	
	Lit		6 times		Y-DCDC	Immediate power-down	
PD	Lit		7 times		Y-SUS	Immediate power-down	
	Lit		8 times		ADDRESS	Immediate power-down	
	Lit Lit		9 times 10 times		X-DRIVE X-DCDC	Immediate power-down Immediate power-down	
	Lit		11 times		X-SUS	Immediate power-down	
	Lit		12 times		DIGITAL-DCDC	Immediate power-down	
	Lit		15 times		UNKNOWN *	Immediate power-down	
	LIL		ro umes		UNKINUVVIN *	immediate power-down	

^{*} If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

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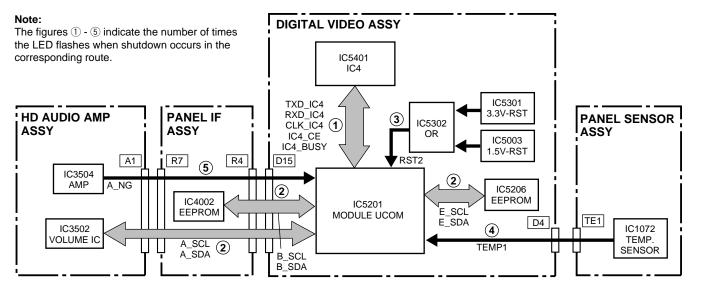
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• Block diagram of the shutdown signal system



• Diagnosis of shutdown

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LED	SD Circuit in Operation	Defective Assy	Reason for Shutdown	Point to be Checked	Possible Defective Part	Remarks
			Communication failure of IC4	IC4 BLOCK, PANEL FLASH BLOCK	IC5401, IC5305	
1 time	Communication failure of the panel-drive IC	DIGITAL VIDEO	Writing failure of IC4			After turning the unit on again, check if the data on the version can be read with the GS1 command.
		DIGITAL VIDEO	Communication failure of the EEPROM (4K)	MODULE UCOM BLOCK	IC5206	
	Communication		Communication failure of the EEPROM (2K)	PANEL IF BLOCK	IC4002	
2 times	failure of the module IIC (Check the shutdown	PANEL IF	Disconnection of cable	CN4009 - CN3501		Check if the cable is disconnected or not securely connected.
	subcategory on	HD AUDIO	Defective volume IC	HD AUDIO AMP Assy	IC3502	
	the Factory menu.)		Defective 114-pin FPC	CN4004 - CN5001	ADY1081	Check if the 114-pin FPC is broken or not securely connected.
0 11	Power decrease of DIGITAL-DC-DC	DIGITAL VIDEO	Defective DC-DC converter	DIGITAL DD CON BLOCK	U5601	Check if 3.3 V, 2.5 V, and 1.5 V are activated.
3 times			Defective RST IC	PANEL FLASH BLOCK	IC5301, IC5302, IC5303	
		POWER SUPPLY	No startup of 12 V			
			Cable disconnected	CN5202 - CN1071		
4 times	Panel having higher temperature	DIGITAL VIDEO	Panel having higher temperature	Surrounding temperature		Shutdown occurs when the sensor temperature becomes 77°C or more (PDP- 434P) or 83°C or more (PDP-504P).
			Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
5 times	Audio failure	HD AUDIO	Defective AMP IC	HD AUDIO AMP ASSY	IC3504	
		HD AUDIO	Disconnection of cable	CN4009 - CN3501		Check if the cable is disconnected or not securely connected.

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• Power-down diagnosis (defective points)

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	PD Circuit in operation	Defective Assy	Reason for Power-down	Point to be Checked	Possible Defective Part	Remarks
~	MR POWER					
7	POWER	POWER SUPPLY Unit				If the elapsed time from relay-on until the LED on the power supply unit lights is about 2-4 seconds, the defective assembly may be the 43 X or Y DRIVE.
		43 X DRIVE Assy	VSUS UVP	X SUS BLOCK	IC1203 - IC1207 (mask module)	
		43 Y DRIVE Assy	VSUS UVP	Y SUS BLOCK	IC2303 - IC2307 (mask module)	
			VH UVP	SCAN IC	SCAN IC	
က	SCAN	43 SCAN A, B Assy or Y 43 DRIVE Assy	VH UVP	VH DC/DC	IC2401, IC2402, IC2410, L2401	
			Disconnection of cable detected	CN2001, CN2301		
			Disconnection of cable detected	CN2101, CN2102		
4	SCN-5V	43 SCAN A, B Assy or 43 Y DRIVE Assy	ICSV UVP	SCAN IC, IC5V DC/DC Y SUS BLOCK	SCAN IC, Q2401, Q2402, IC2304, IC2309	
			IC5V OVP	IC5V DC/DC	IC2403, IC2411	
2	Y-DRIVE	43 Y DRIVE Assy	+16.5V OCP	Y SUS BLOCK	IC2303 - IC2307 (mask module), IC2301, IC2304, R2309	
			VOFS UVP	VOFS DC/DC	IC2404, IC2412, Q2404, Q2407	
9	Y-DCDC	43 Y DRIVE Assy	VOFS OVP	VOFS DC/DC	IC2404, IC2412	
			VH OVP	VH DC/DC	IC2402, IC2410	
7	Y-SUS	43 Y DRIVE Assy	Power-down caused by detection of middle-point voltage	Y RESONANCE BLOCK	Q2202, Q2203, Q2214, Q2205, Q2206, Q2208, Q2209, Q2211, Q2212, IC2201, IC2202, Control signal series resistors	
		DIGITAL VIDEO Assy	Power-down caused by detection of middle-point voltage	DIGITAL VIDEO Assy	IC5401, Control signal series resistors	
			Disconnection of cable detected	CN1501		
∞	ADRS	43 ADDRESS Assy	Power-down caused by detection of a power surge	ADR RESONANCE BLOCK	R1631, Q1601, D1602	
			Power-down caused by detection of middle-point voltage	ADR RESONANCE BLOCK	Q1602, C1609, D1606, D1607	
			Disconnection of cable detected	CN1001, CN1201		
6	X-DRIVE	43 X DRIVE Assy	+16.5V OCP	X SUS BLOCK	IC1203, IC1207 (mask module), IC1204, IC1206, R1230	
			VRN OCP	X SUS BLOCK	Q1205, R1226, R1251	
			VRN OVP	VRN DC/DC	IC1403, IC1404	
10	X-DCDC	43 X DRIVE Assy		VRN DC/DC	IC1402, IC1403, IC1404	
				X SUS BLOCK	Q1205, R1226, R1251	
7	11 X-SUS	43 X DRIVE Assy	Power-down caused by detection of middle-point voltage	X RESONANCE BLOCK	Q1102, Q1103, Q1114, Q1105, Q1106, Q1108, Q1109, Q1111, Q1112, IC1101, IC1102, Control signal series resistors	
		DIGITAL VIDEO Assy	Power-down caused by detection of middle-point voltage	DIGITAL VIDEO Assy	IC5401, Control signal series resistors	OVP : Over Voltage Protection UVP : Under Voltage Protection
12	12 DIG-DCDC	DIGITAL VIDEO Assy	DCDC +3.3V, +1.5V OVP	DC DC CONVERTER BLOCK	U5601 (DC DC CONVERTER Module)	OCP : Over Current Protection

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7.1.3 DIAGNOSIS WITH THE AID OF FACTORY MODE

• Diagnosis with the aid of Factory mode

When the Media Receiver is connected, the power-down and shutdown logs can be referred to with OSD. Only the items useful when servicing the PDP-434PU/PDP-504PU are described here.

■ How to enter Factory mode using the remote control unit

Please refer to the technical documentation (Service knowhow).

■ Power-down log (INFORMATION-PANEL PD)

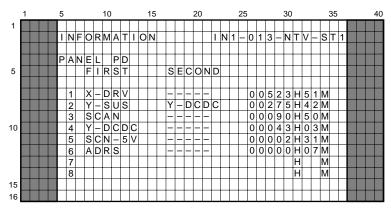
The last 8 power-down records are held, with the latest power-down displayed at the top. In the FIRST column, the location where the PD circuit was activated first (location indicated by flashing of the LED during power-down) is indicated, and in the SECOND column, the location where the PD circuit was activated second is indicated.

Note: There may not be a SECOND PD.

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■ Shutdown log (INFORMATION-PANEL SD)

The last 8 shutdown records are held, with the latest shutdown displayed at the top. If a shutdown occurred because of "MD-IIC" (communication failure of the module microcomputer IIC), the subcategory is indicated to inform you of with which device the microcomputer was in the process of communicating when a failure occurred.

	1		5					10					15					20				25					30					35	_			40
1																	Г				Г												Г	П	П	
			1	Ν	F	0	R	М	Α	Т	I	O	Ν						I	Ν	1	_	0	1	3	_	Ν	Т	V	_	S	Т	1			
																																	Г	П	П	
			Р	Α	Ν	Е	L		Р	D						Г					Г												Г			
5						М	Α	ı	N					s	U	В																				
				1		Α	U	D	1	0				-	-	-	-	F			0	0	1	0	3	Н	5	1	М							
				2		M	D	-	1	1	С			٧	0	L	ı	С			0	0	0	7	5	Н	4	2	М							
				3		Т	Е	M	Р	1				_	_	-	_	_			0	0	0	5	0	Н	5	0	М							
10				4		Т	Е	М	Р	1				_	_	-	_	L			0	0	0	5	0	Н	4	5	М							
				5																						Н			М							
				6																						Н			М							
				7																						Н			М							
				8																						Н			М				L			
15																																	L		L	
16																																	L			

[Data on MD-IIC subcategories]

OSD	Defective communication part
EROM4K	IC5206: Module microcomputer
EROM2K	IC4002: EEPROM for backup
VOLIC	IC3502-Volume IC

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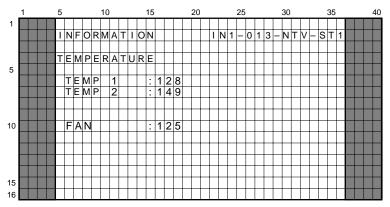
■ Data on temperature (INFORMATION-TEMPERATURE)

The data on the current temperatures are displayed.

The temperature at the PANEL SENSOR ASSY of the PDP-434PU/PDP-504PU is indicated as the TEMP 1 value (000-255), which should be converted using the following formula:

Current temperature (°C) $\stackrel{.}{=} 0.65 \times TEMP$ 1 value - 52

Note: Shutdown caused by high TEMP 1 value PDP-434P: TEMP 1 value > 200 ($= 77^{\circ}$ C) PDP-504P: TEMP 1 value > 209 ($= 83^{\circ}$ C)



Note: To update the data on temperature, use the Left and Right keys on the remote control unit.

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Shutdown occurs 30 seconds after

2

Shutdown occurs 30 seconds after the green LED flashes four times

alerting of high-temperature operation

SD after the green LED flashes

Check if Pin 1 of the CN4006 is low.

Incomplete connection between the AUDIO and PANEL IF

assemblies

Green LED flashes twice

abnormal display

2

No display,

(abnormal LED)

Green LED flashes four

times.

Panel having high temperature. Incomplete connection between the PANEL SENSOR and DIGITAL assemblies.

Incomplete connection between the LED and PANEL IF Assy

Defective lighting

No key operation

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effective

Incomplete connection between the TRAP switch and the

PANEL IF Assy. Rear case opened

Incomplete connection of the system cable

Alternate flashing of the red and green LEDs

Both the red and green

LEDs lit

The connection of the system cable may have been

slightly loose

twice

3

Vibration added

Incomplete connection between the PANEL KEY and KEY Check if a pulse is output from Pin 2 of the CONTROL assemblies

CN4852 when the KEY button is pressed.

Check if a pulse is output from Pin 5 of the CN4010 when the KEY button is pressed.

Incomplete connection between the KEY CONTROL and

PANEL IF assemblies

Operation of the

remote control

unit is not

effective

3

Check if a pulse is output from Pin 3 of the CN4010 when the KEY button is pressed.

些

Incomplete connection between the AUDIO and PANEL

assemblies

interrupted

Sound

Incomplete connection between the PANEL IR and PANEL IF assemblies

4

Check if an abnormal area in the screen changes when the 40-pin FPC is replaced.

IC5401 (40-pin connector) of the ADDRESS Assy

Possible defective part

(defective soldering, data-transmission error, etc.)

Abnormality in a one-eighth area of

the screen

4

What is happening?

DIGITAL VIDEO Assy-related diagnosis]

Incomplete connection of the 114-pin FPC

Data of every other dot are abnormal

Abnormal screen

Which pin must be checked? (What is to be checked?)

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connection between the POWER SUPPLY and PANEL IF Incomplete connection of the FPC (114-pin) between the PANEL IF and DIGITAL assemblies. Incomplete

PANEL IF Assy-related diagnosis]

Symptom

PD or SD? (How many times does the LED flash?)

1

In which condition does the symptom tend to appear?

Which pin must be checked? (What is to be checked?)

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interrupted

Power

No power

1

assemblies.

Error indication

62

What is happening?

(defective soldering, data-transmission error, etc.)

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7.1.4 CANCELING DETECTION BY THE TRAP SWITCH

Canceling detection by the TRAP switch

For video data transmission from the Media Receiver to the plasma display, digital signals are used. Therefore, this unit adopts

the HDCP (High-bandwidth Digital Content Protection) system for copyright protection. This unit is also provided with a detection switch (TRAP switch) that will prohibit the unit from being turned on again if the rear case of the unit is opened, in

order to prevent the panel technology from being leaked out.

Function: To deactivate the detection of the TRAP switch

Purposes: 1. During production of this unit, adjusting with the rear cover opened is possible.

2. During servicing or repairing, diagnoses of the assemblies are possible while the power is on.

Methods: For setting, use RS232C commands:

TSN: Ignore the monitoring of the switch CTM: Clear the detection log of the switch TSY: Reactivate monitoring of the switch

Notes:

- The TRAP switch is located on the chassis (see Fig. below).
- · Once rear case opening is detected, send the TSN and CTM commands.
- Because the TSN command is not stored in memory, monitoring of the switch can be reactivated by turning the unit off then back on.
- The same setting is possible using the Factory menu.
- · Because the output of the DVI receiver is controlled by the physical setting of the TRAP switch, if the TRAP switch is set to OPEN, the DVI signal cannot be output even if the TSN command is sent.
- · When the Media Receiver is connected, detection by the TRAP switch can be canceled by entering Factory mode.

How to enter Factory mode using the remote control unit

Please refer to the technical documentation (Service knowhow).

How to clear the detection log of the TRAP switch

In the INITIALIZE layer, hold the OSD key on the remote control unit pressed for at least 3 seconds.

After a power-down, to cancel detection of the TRAP switch using only the remote control unit, follow the procedures below.

First, fix the TRAP switch to its depressed position. Set the drive ON/OFF switch in the DIGITAL VIDEO Assy to OFF, Then enter the Factory mode. Press the MUTE key four times, then hold the OSD key pressed for at least 3 seconds. Set the AC switch on the panel to OFF. The log is also cleared. Then set the drive ON/OFF switch to ON.

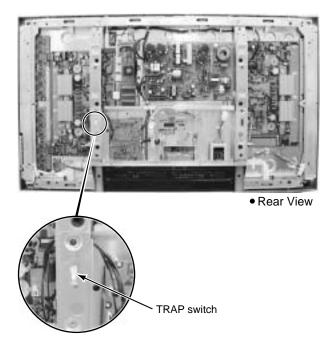
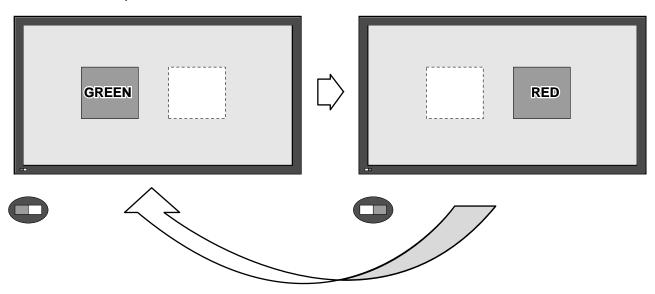


Fig. TRAP switch

7.1.5 OPERATION WHEN THE MEDIA RECEIVER IS NOT CONNECTED

As the connection conditions of the system cables (MDR cable, DVI cable) are usually detected, if no connection, such as cable disconnection, is detected, a warning indication (alternate flashing of the red and green areas) is displayed on the mask screen, and the red and green LEDs flash alternately. Then after about 30 seconds, the power is automatically turned off.

Note: Only when the power is turned on again, a warning indication on the mask screen restarts. During standby, only the red and green LEDs flash alternately.



Alternate flashing at intervals of about 1 second

To operate the panel without the Media Receiver, there are the following two ways:

1. Operation-without-the-Media-Receiver mode

Input the "SCN" RS232C command. The status of the LEDs changes to that in normal operation mode.

Note: Turning the AC switch to OFF then ON also maintains this mode. However, once the unit is connected with the Media Receiver using the MDR cable, this mode is automatically canceled.

2. DVI mode

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Turn the unit on while PC and DVI SG signals are being input with only the DVI connecter connected. After a warning is displayed for about 5 seconds, the unit is ready to display the screen of the input signal. (Green LED lit)

- Notes: Although the output from XGA (43 inch) and WXGA (50 inch) can be input to the unit, this is not a mode open to general users. (With some signals, errors such as power-down may occur.)
 - If a DE signal from the SG is not input during DVI mode, the green LED flashes (at intervals of 2 sec) for about 8 seconds, then the unit shifts to Power Management mode (the green LED lights).

7.1.6 TEMPERATURE-COMPENSATION FUNCTION OF THE DRIVE-SYSTEM VOLTAGE

Function: To control the DRIVE-system voltage according to the temperature (Temperature compensation functions such that the voltage is lowered on the lower-temperature side and the voltage becomes higher on the higher-temperature side.)

Purpose: For improving the yield by compensating for the temperature characteristics of the panel

Note: Temperature compensation is performed only for the VSUS voltage, and not for the VOFS voltage. This compensation is controlled by the software.

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7.1.7 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: Only the power for the small-signal system (16.5 V, 12 V, and 6.5 V) is on, and the power for the large-signal system (VSUS, VADR) is off.

Usage: 1. Use when only an operational check for the small-signal system is required, such as when making repairs.

2. Use when rewriting of a program for each microcomputer is required.

Methods: 1 Set the slide switch (S5201) on the DIGITAL VIDEO Assy to its upper position (see Fig. below).

- 2. Send the "DRF" RS232C command to turn the large-signal system off.
- 3. Send the "DRN" RS232C command to turn the large-signal system on.

Notes:

- As the unit enters Power-Down and Muting On mode when Methods 1 and 2 are performed, and power-downs other than those caused by the power (PS_PD) and DC-DC-converter (DIGITAL_DC-DC) circuits are not activated.
- If the slide switch is set from OFF to ON while the power is on, a power-down will occur. Be sure to turn the power off before switching the slide switch.

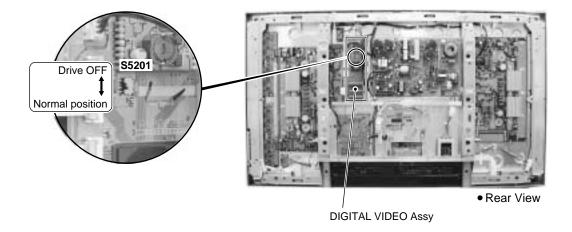


Fig. Drive OFF switch

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7.1.8 BACKING UP THE ADJUSTMENT VALUES FOR THE MAIN UNIT

Outline

The data on the adjustment values for the main unit are stored in an EEPROM (IC5206, 4 kbits) on the DIGITAL VIDEO Assy. Part of the data (area A in the figure below) are automatically copied to an EEPROM (IC4002, 2 kbits) mounted on the PANEL IF Assy for backup. When the DIGITAL VIDEO Assy is replaced, the backup data on the adjustment values for the main unit stored in the PANEL IF Assy can be copied to the new DIGITAL VIDEO Assy, thus enabling you to omit newly performing adjustments on the main unit. The logs for the product (power-down log, etc.) can also be copied.

■ Data to be backed up in the digital EEPROM (area A)

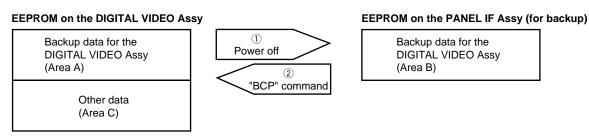
- Margin adjustment values (Vsus, Vofset)
- Power upper-limit adjustment value (ABL)
- PANEL white-balance adjustment values (PANEL-R HIGH, PANEL-G HIGH, PANEL-B HIGH, PANEL-R LOW, PANEL-G LOW, PANEL-B LOW)
- Drive waveform adjustment values
 (X-SUS-U1, X-SUS-U2, X-SUS-D1, X-SUS-D2, Y-SUS-U1, Y-SUS-U2, Y-SUS-D1, Y-SUS-D2, Y-SUS-D3, Y-SUS-D4)
- Hour meter
- · Pulse meter
- · Number of times the power has been turned on
- PD/SD logs

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■ Basic flow of automatic backup

Using a keyword, the data in areas A and B are judged as to whether they have been adjusted or not, then copying is performed.

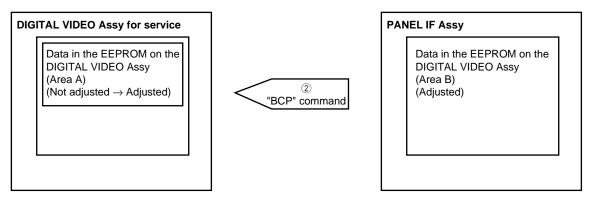


- ① The keyword on the DIGITAL VIDEO Assy is checked when the power is turned off, and if it is "adjusted", automatic backup is performed.
- ② If the keyword on the PANEL IF Assy (Area B) is "adjusted," copying can be performed with the "BCP" RS232C command.

■ Actual automatic backup operations

1. When the DIGITAL VIDEO Assy is replaced with an Assy for service

Changing of keywords is not required. Replace the DIGITAL VIDEO Assy with an Assy for service, and send the "BCP" RS232C command. Thus, the backup data in the EEPROM on the PANEL IF Assy are copied to the EEPROM on the DIGITAL VIDEO Assy for service.



2. When a repaired DIGITAL VIDEO Assy is mounted on another unit (reuse of the repaired DIGITAL VIDEO Assy)
The keyword of the DIGITAL VIDEO Assy to be reused must be changed to "not adjusted" using the "UAJ" RS232C command.

Note 1: If a repaired DIGITAL VIDEO Assy is mounted in another unit (Unit 2) without this change of keyword, and the power to the unit 2 is turned off, the data in force before the repair of the DIGITAL VIDEO Assy will be copied to Area B of the PANEL IF Assy of Unit 2, overwriting the data necessary for Unit 2. Once overwritten, the original data will not be restored.

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- 3. When a repaired DIGITAL VIDEO Assy is mounted on the original unit (reuse of the repaired DIGITAL VIDEO Assy) Changing of keywords is not required. After the repaired DIGITAL VIDEO Assy is mounted in the original unit, the unit can operate with its latest adjustment values.
- 4. When both the DIGITAL VIDEO Assy and PANEL IF Assy are simultaneously replaced with other assemblies The automatic backup function of this unit will not work properly.
- Note 2: Readjustment of the main unit is required.
- Note 3: After readjustment of the main unit, send the "FAJ" RS232C command to change the keyword of the DIGITAL VIDEO Assy to "adjusted." Thus, when the unit is turned off, automatic backup of adjustment data is performed properly.
- Note 4: If readjustment of the main unit is totally impossible, it can be omitted by installing the EEPROM (IC5206, 4 kbits) originally mounted on the DIGITAL VIDEO Assy for service.

Miscellaneous

If the white balance (W/B) value is largely shifted because of aging, etc., W/B adjustment is required. (As this may be a rare case, the adjustment procedures are described below, just for your reference.

[W/B-adjustment procedures]

The W/B adjustment can be performed with the RS232C commands with the Media Receiver not connected to this unit. The GGF1475 special communication tool and a Minolta CA-100 color difference meter are required.

- ① Enter Operation-without-the-Media-Receiver mode with the "SCN" RS232C command.
- ② Set the keyword for the DIGITAL VIDEO Assy to "not adjusted" with the "UAJ" RS232C command.
- 3 Obtain the current adjustment values in the two adjustment tables (see "6.2.1 RS232C commands").
 - Shifting to Table 1: Send the "M51" and "F60" commands. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "M51" and "F75" commands. Obtaining the adjustment values: Send the "GPW" command.
- 4 Make settings for various functions.

Send the "PPN," "SDN," "SPN," and "WAY" commands.

Note: After adjustment, when the POWER switch is set to OFF, these settings will be reset to the initial values.

- 5 For each table, set the brightness.
 - Adjustment in Table 1: After sending the "F60" command, perform adjustment.
 - Adjustment in Table 2: After sending the "F75" command, perform adjustment.

For each table, change the RGB parameters so that the values measured using a Minolta color difference meter (CA-100) become as indicated below. In this case, any one of PRH, PGH, or PBH must be set to 256.

	Left side of Mask H	Right side of Mask H	
х	_	284	"PRH***" : 000 - 511 "PGH***" : 000 - 511
У	_	292	"PBH***" : 000 - 511

- 6 Check after adjustment
 - Shifting to Table 1: Send the "F60" command. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "F75" command. Obtaining the adjustment values: Send the "GPW" command. Check that the adjustment data have been changed.
- ① Change the keyword for the DIGITAL VIDEO Assy to "adjusted" by sending the "FAJ" RS232C command.

Note: Use a Minolta CA-100 color difference meter or the equivalent for measurement. Otherwise, the specifications of the product cannot be assured.

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Check if the unit works properly when detection of the TRAP switch is canceled. (See "7.1.4 Canceling detection of the TRAP switch.")

ASG1089

Check if the TRAP switch is properly set. (See "7.1.4 Canceling detection of the TRAP switch".)

Check if the FPC is broken or not securely inserted.

ADY 1081

CN4004 - CN5001

Defective 114-pin FPC

CN4001

Cable disconnection

No power (both red and green LEDs unlit)

No power (green LED not lit)

CN4006

Detection by the TRAP switch

7.1.9 TROUBLESHOOTING

Check if the connection between the POWER SUPPLY and PANEL IF assemblies is properly made.

Remarks

Possible Defective Part

Check Point

Possible Cause

Defective Assy

Symptom

1

2

7.1.5

Check if the system cables are securely connected. (See 'Operation when the Media Receiver is not connected.")

CN4002, CN4003

Defective system cables

Defective TRAP switch

System cables not connected

The power is interrupted, and the red and green warning indications appear on the screen.

2

The power is (sometimes) interrupted.

Check if a pulse is output when the key corresponding to Pin 2 of the CN4852 is pressed.

IC4851

KEY CONTROL Assy

Defective KEY SCAN IC

KEY CONTROL

CN4901 - CN4010

Cable disconnection

Check if the cables are not connected or securely connected.

Check if the FPCs are properly connected

Check if a pulse is output when the key corresponding to Pin 5 of

the CN4010 is pressed

Check if the cables are disconnected or not securely connected

vibration to the unit affects key inputs. Check if a pulse is output

ADD1225

CN4801 - CN4851

Cable disconnection

CN4852 - CN4010

Cable disconnection

Check if the FPCs are properly connected. Check if imparting

Check connection of the system cables. (See "7.1.5 Operation when the Media Receiver is not connected.")

3

4

Check that an abnormal area in the screen does not change when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.

Check if the FPC is broken or not securely inserted.

ADY 1081

CN4004 - CN5001

Defective 114-pin FPC

Check if a pulse is output when the key corresponding to Pin 3 of the CN4010 is pressed.

Check if an abnormal area in the screen changes when the FPC connected to the address corresponding to the abnormal area is

IC5401

IC4 BLOCK

Defective IC4

DIGITAL VIDEO

Abnormality in a one-eighth area of the

ADDRESS

U4901

PANEL IR

Defective infrared receiver

PANEL IR

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Diagnosis of abnormalities other than shutdown and power-down]

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No power (both red and green LEDs lit)

PDP-434PU

Key input not effective

3

Remote control unit not effective

4

Abnormal screen (Data of every other dot are abnormal)

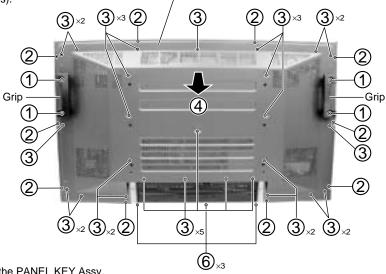
1 Rear case (43P), Front case Assy (43P)

Remove the grip by removing the four screws.

2 Remove the ten screws (B tight).

Remove the twenty six screws (M screws).

(4) Remove the rear case (43P).



Rear case (43P)

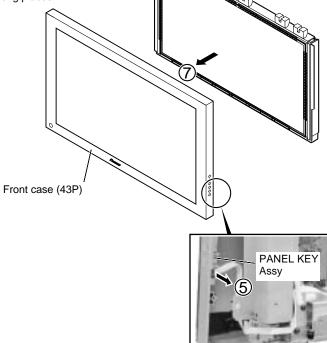
(5) Remove the flexible cable (J211) from the PANEL KEY Assy.

(6) Remove the three screws (B tight).

(7) Remove the front case (43P).

Note:

As the screws used for the front case are B tight (ABZ30P100FZK) and other screws used are M screws (AMZ30P060FZK), care must be taken not to use the screws in the wrong places.

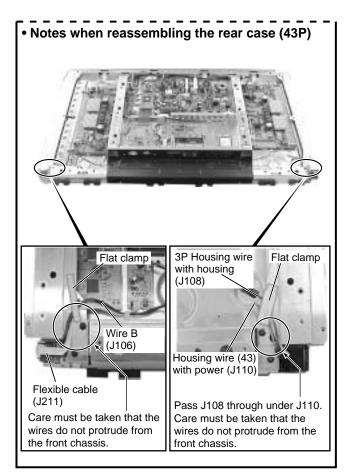


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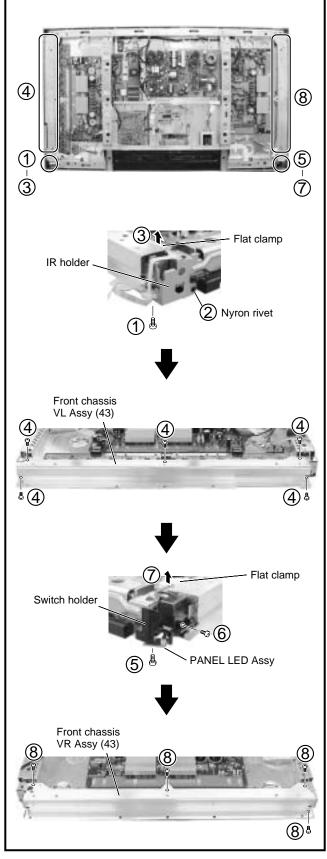
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2 Front chassis VL Assy (43), Front chassis VR Assy (43)

- (1) Remove the front case, then remove the screw that secures the IR holder.
- (2) Remove the nylon rivet, then remove the IR holder.
- (3) Remove the flat clamp, then remove the wires.
- (4) Remove the front chassis VL Assy (43), by removing the 5 screws (M screws).
- (5) Remove the PANEL LED Assy, by removing the screw (B tight). If the screw is not removed, the connectors on the PANEL LED Assy may be damaged.
- (6) Remove the switch holder, by removing the screw (M screw).
- (7) Remove the thin clamp, then remove the wires.
- (8) Remove the front chassis VR Assy (43), by removing the 4 screws (M screws).

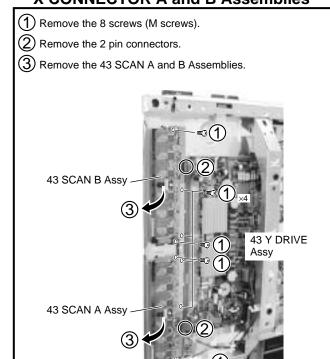


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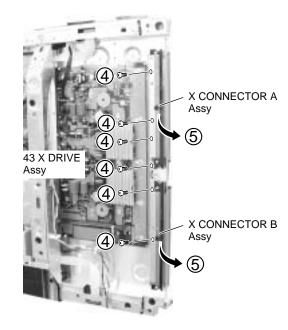
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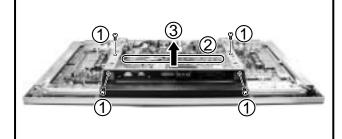


- (4) Remove the 6 screws (M screws).
- (5) Remove the X CONNECTOR A and B Assemblies.



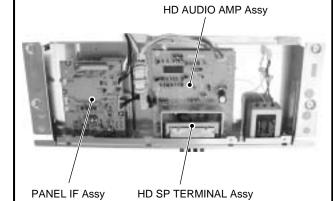
4 Multi base section

- (1) Remove the 4 screws (M screws).
- (2) Remove the some connectors.
- Remove the multi base section.





• PCB Location for multi base section





7.2 IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.
- List of IC

В

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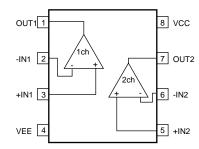
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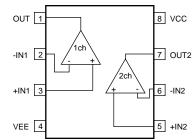
BA10393F, BA10358F, BA8274F, NJM2195L, MBM29PL160BD, SII169CTG100, STK795-510, STK795-511, LA4625, M30626FHPGP, PD5856A

3

- BA10393F (43 X DRIVE ASSY: IC1103) (43 Y DRIVE ASSY: IC2211)
 - Comparator IC
 - Pin Arrangement (Top view) / Block Diagram



- BA10358F (43 Y DRIVE ASSY: IC2406)
 - OP-AMP IC
- Pin Arrangement (Top view) / Block Diagram



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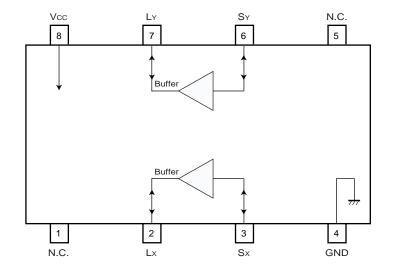
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■ BA8274F (PANEL IF ASSY: IC4206)

• I²C Bus Interface IC

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• Block Diagram



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• Pin Function

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Pin No.	Pin Name	Equivalent Circuit	Pin Function
2 7	Lx Ly	Vcc	Buffer output
		0	
3 6	Sx Sy	Vcc	Buffer input
4	GND	_	Ground
8	Vcc	_	Power supply

PDP-434PU

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■ NJM2195L (HD AUDIO AMP ASSY: IC3501)

• Focus and SRS IC

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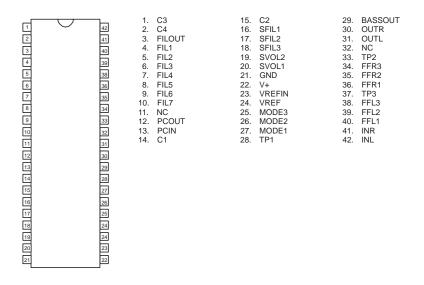
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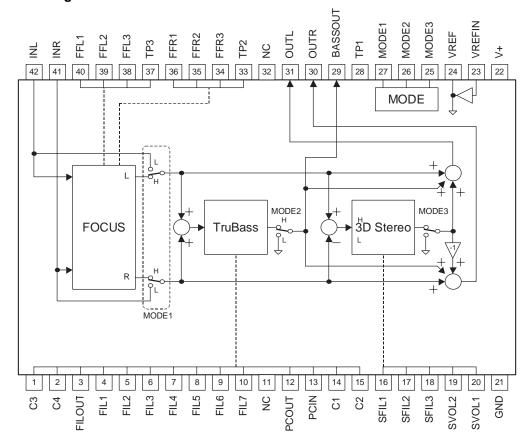
Pin Arrangement (Top view)



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Block Diagram



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• Pin Function

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SDIP42	No. SOP40	QFP48	Pin Name		Equivalent Circuit	
14	13	9	C1		V+ V+ V+ V+	OV
15	14	10	C2		V+ V+ V+ V+ V+	OV
16 17 18	15 16 17	11 14 15	SFIL1 SFIL2 SFIL3		V+ V+ V+	V+/2
19 2 5	18 2 5	16 44 47	SVOL2 C4 FIL2	WIDTH VR	V+ V+ V+	V+/2

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Pin Function

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SDIP42	No.	QFP48	Pin Name		Equivalent Circuit	
21	20	18	GND	GND		0V
22	21	19	V+			V+
23	22	20	VREFIN		V+ V	V+/2
24 29 30 31 36 40 3	23 28 29 30 34 38 3	21 28 29 30 34 40 45	VREF BASSOUT OUTR OUTL FFR1 FFL1 FILOUT	TruBass Rch Lch	V+ V	V+/2
25 26 27	24 25 26	22 23 26	MODE3 MODE2 MODE1	3 2 1	V+ V+ V+ V+ V+ 150 NG	ov

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• Pin Function

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	No.		Pin			
SDIP42		QFP48	Name		Equivalent Circuit	
28 35 39	27 33 37	27 33 39	TP1 FFR2 FFL2		V+ V+ V+ V+	V+/2
33 37	31 35	31 35	TP2 TP3		V+ -	
41 42	39 40	41 42	INR INL	Rch Lch	V+ V	V+/2
4	4	46	FIL1		V+ V	V+/2

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■ MBM29PL160BD (DIGITAL VIDEO ASSY: IC5303)

• Flash Memory IC

Block Diagram

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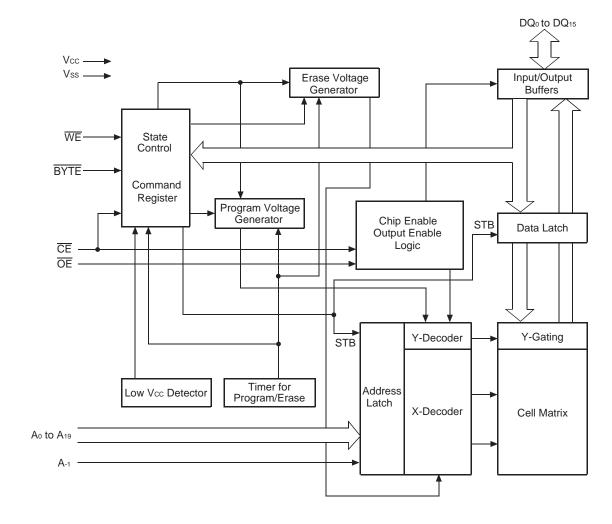
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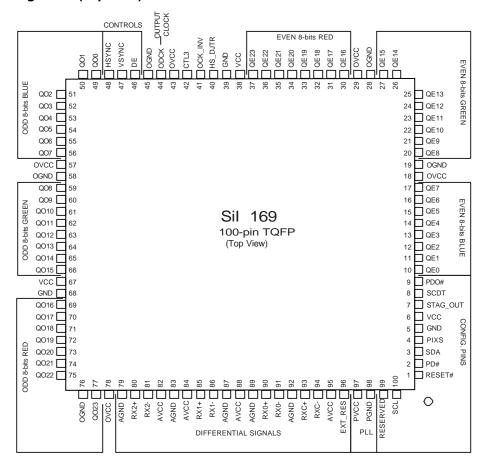
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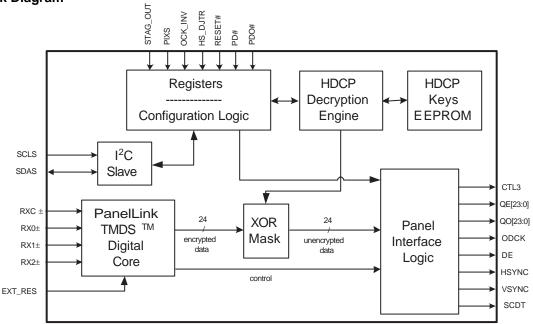
Receiver IC

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Pin Arrangement (Top view)



Block Diagram



PDP-434PU

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■ STK795-510 (43 X DRIVE ASSY: IC1203, IC1207)

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- PDP Mask Module IC
- Block Diagram

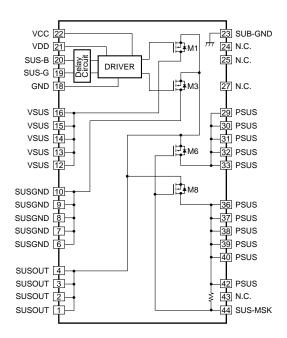
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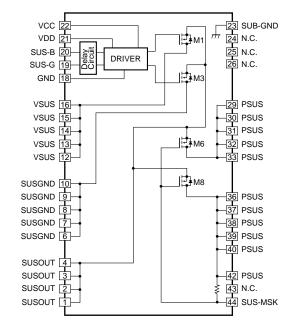
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■ STK795-511 (43 Y DRIVE ASSY: IC2303, IC2307)

- PDP Mask Module IC
- Block Diagram



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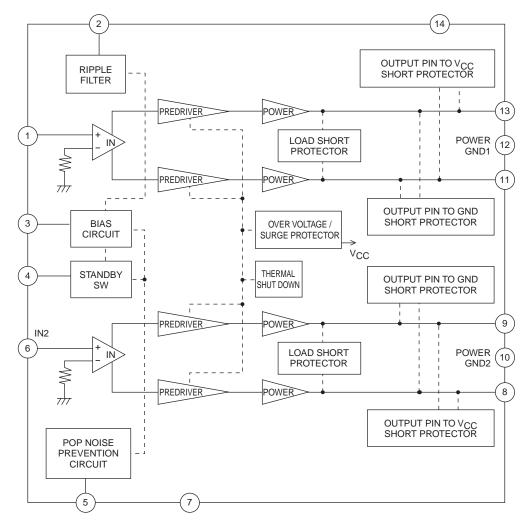
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Block Diagram



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■ M30626FHPGP (DIGITAL VIDEO ASSY : IC5201)

• PDP UCOM

● Pin Function (1/2)

No.	Pin Name	Function	1/0	ACTIVE
1	VSUS	[D/A] Vofs power control	0	
2	VOFS	[D/A] Vofs power control	0	
3	TXD_IC4	3 serial communication with IC4MANTA - data transmission	0	
4	RXD_IC4	3 serial communication with IC4MANTA - data receive	I	
5	CLK_IC4	3 serial communication with IC4MANTA - clock output	0	
6	BYTE	(GND connection)	I	
7	CNVSS	Pin for processor mode setting (pull-down)	I	
8	NC	NC pin		
9	NC	NC pin		
10	RST_MD	Reset input	ı	L
11	XOUT	Output for main clock	0	_
12	VSS	GND		_
13	XIN	Input for main clock	ı	_
14	VCC1	Power supply = STB3.3V	_	_
15	NMI	(pull-up)		
16	REM_B	(Interruption) Remote control signal input (in the panel unit)	<u> </u>	1
17	KEY_B	(Interruption) Key signal input (in the panel unit)	<u>'</u>	
18	RST2	(Interruption) IC4 reset detection	<u>.</u>	L
19	HD_IN_B	HD signal existence distinction	<u>.</u>	L
20	PD_MUTE	Mute the power down output to the POWER SUPPLY Unit	0	L
21	PS PD	PD signal in the POWER SUPPLY Unit		Н
22	DCC_PD		<u> </u> 	Н
	NC	PD signal of DC-DC converter	<u>I</u>	Н
23		NC pin		
24	NC	NC pin		
25	VD_IN	V. frequency count	<u> </u>	L
26	EEPRST	EEPROM power SW	0	Н
27	E_SCL	IIC clock output for EEPROM	0	
28	E_SDA	IIC data I/O for EEPROM	I/O	
29	TXD	Communication with flash ROM writer - data transmission	0	
30	RXD	Communication with flash ROM writer - data receive	<u>!</u>	
31	SCLK	Communication with flash ROM writer - clock input	<u> </u>	
32	BUSY	Communication with flash ROM writer - busy output	0	
33	TXD0	UART communication with main UCOM (external PC) - data transmission	0	
34	RXD0	UART communication with main UCOM (external PC) - data receive	l	
35	NC	NC pin		
36	REQ_MD	Communication request to the main UCOM	0	Н
37	PSW_D	Mute of DC-DC converter	0	Н
38	WE_IC4	In IC4 (MANTA) rewriting, control for communication path switch	0	Н
39	EPM	Setting pin for flash rewriting mode (pull-down)	I	
40	IC4_RST	IC4 forced reset	0	L
41	IC4_CE	Enable for IC4 communication	0	L
42	IC4_BUSY	Busy input for IC4 communication	I	Н
43	REQ_IC4	Communication request from the IC4	1	Н
44	CE	Setting pin for flash rewriting mode (pull-up)	I	
45	PSIZE	Panel size distinction	I	
46	B_SCL	IIC clock output for backup EEPROM	0	Н
47	B_SDA	IIC DATA I/O for backup EEPROM	I/O	Н
48	ADR_PD	PD signal of address junction	I	Н
49	LED_G	Green LED control	0	L
50	LED_R	Red LED control	0	<u> </u>

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• PDP UCOM • Pin Function (2/2)

5

No.	Pin Name	Function	1/0	ACTIV
51	DRV_OFF	Driving OFF	0	Н
52	RELAY	Power ON control output	0	Н
53	POWER	Power ON control input	ı	Н
54	MR_ST_B	MDR connection detection	I	L
55	OP_DET	Rear case open detection	I	
56	NC	NC pin		
57	PNL_MUTE	Panel mute	ı	
58	DITHER	PC/VIDEO dither switch (panel module exclusive use)	I	
59	NC	NC pin		
60	VCC2	Power supply = STB 3.3V	_	_
61	PD_TRG	PD detection		L
62	VSS	GND		
63	VH_PD	Vh power decrease PD	1	Н
64	YDRV_PD	Y drive PD signal	i	Н.
65	YRES_PD	Y drive PD signal	<u>.</u>	H
66	YDCDC_PD	PD signal of Y drive DC-DC converter	<u>.</u>	Н.
67	IC5V_PD	5V power decrease PD	<u>'</u>	H
68	XSUS_PD	X drive PD signal	<u> </u>	Н Н
69	XDCDC_PD	PD signal of X drive DC-DC converter	<u>'</u>	H H
70	XDRV_PD	X drive PD signal	<u></u>	H
	NC	NC pin		
71 72		·		ш
	MR_AC	MR power monitor	<u> </u>	H .
73	AC_DET	AC power monitor at panel side (same signal as CST1)	<u> </u>	<u> </u>
74	DVI_MUTE	Mute of panel link output	0	H
75	A_MUTE	Audio mute	0	H .
76	A_NG	Audio NG detection	<u> </u>	L
77	A_SCL	IIC clock output for audio/others	0	L L
78	A_SDA	IIC data I/O for audio/others	I/O	L
79	TRUBASS	TRUBASS ON/OFF	0	H
80	STB_SW	Standby setting of audio amp.	0	L
81	FOCUS	FOCUS ON/OFF	0	Н
82	SRS	SRS ON/OFF	0	Н
83	DDC_WP	DDCROM write protection	0	Н
84	DVI_DET	DVI cable disconnection detection	I	Н
85	RSTBTMDS	Reset detection of panel link receiver	ı	L
86	L_SYNC	DE omission detection of the panel link	I	L
87	NC	NC pin		
88	NC	NC pin		
89	MASK1	[A/D] Mask display setting	Į	
90	MAX_PLS2	[A/D] Brightness setting for panel module	I	
91	MAX_PLS1	[A/D] Brightness setting for panel module	I	
92	TEMP	[A/D] AD input for temperature sensor	I	
93	MODE	[A/D] Operation mode setting	I	
94	AVSS	GND for A/D input	_	_
95	MODEL	[A/D] CMX/HD/TV/WX distinction	I	
96	VREF	Reference voltage for A/D input	_	_
97	AVCC	Power supply for A/D input = STB3.3V	_	
98	NC	NC pin		
99	NC	NC pin		+
100	AMG_MD	Address emergency monitor		Н

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● Pin Function (1/10)

Ball No.	No.	Pin Name	Function
A1	1	BAI_6	A phase signal input of B video (sixth bit)
B1	2	BAI_5	A phase signal input of B video (fifth bit)
C1	3	BAI_4	A phase signal input of B video (fourth bit)
D1	4	NC	NC pin
E1	5	NC	NC pin
F1	6	BAI_3	A phase signal input of B video (fifth bit)
G1	7	BAI_2	A phase signal input of B video (fourth bit)
H1	8	FIELD	FIELD signal input
J1	9	XSUSB_12	X-Drive control signal output
K1	10	XSUSB_10	X-Drive control signal output
L1	11	XSUSB_4	X-Drive control signal output
M1	12	XSUSB_0	X-Drive control signal output
N1	13	XSUSA_10	X-Drive control signal output
P1	14	XSUSA_4	X-Drive control signal output
R1	15	XSUSA_2	X-Drive control signal output
T1	16	ADRS_0	Address control signal output
U1	17	AD6TXOUT3M	Address LVDS signal output
V1	18	AD6TXCLKOUTM	Address LVDS signal output
W1	19	AD6TXOUT2M	Address LVDS signal output
Y1	20	AD6TXOUT1M	Address LVDS signal output
AA1	21	AD6TXOUT0M	Address LVDS signal output
AB1	22	AD7TXOUT3M	Address LVDS signal output
AC1	23	AD7TXCLKOUTM	Address LVDS signal output
AD1	24	AD7TXOUT2M	Address LVDS signal output
AE1	25	AD7TXOUT1M	Address LVDS signal output
AF1	26	AD7TXOUT0M	Address LVDS signal output
AF2	27	AD7TXOUT0P	Address LVDS signal output
AF3	28	VSSLA	GND
AF4	29	AD3TXOUT3M	Address LVDS signal output
AF5	30	AD3TXCLKOUTM	Address LVDS signal output
AF6	31	AD3TXOUT2M	Address LVDS signal output
AF7	32	AD3TXOUT1M	Address LVDS signal output
AF8	33	AD3TXOUT0M	Address LVDS signal output
AF9	34	AD2TXOUT3M	Address LVDS signal output
AF10	35	AD2TXCLKOUTM	Address LVDS signal output
AF11	36	AD2TXOUT2M	Address LVDS signal output
AF12	37	AD2TXOUT1M	Address LVDS signal output
AF13	38	AD2TXOUT0M	Address LVDS signal output
AF14	39	AD1TXOUT3M	Address LVDS signal output
AF15	40	AD1TXCLKOUTM	Address LVDS signal output
AF16	41	AD1TXOUT2M	Address LVDS signal output
AF17	42	AD1TXOUT1M	Address LVDS signal output
AF18	43	AD1TXOUT0M	Address LVDS signal output
AF19	44	AD0TXOUT3M	Address LVDS signal output
AF20	45	AD0TXCLKOUTM	Address LVDS signal output
AF21	46	AD0TXOUT2M	Address LVDS signal output
AF22	47	AD0TXOUT1M	Address LVDS signal output
AF23	48	AD0TXOUT0M	Address LVDS signal output
AF24	49	VSSL15	GND
AF25	50	AD4TXOUT3P	Address LVDS signal output

● Pin Function (2/10)

5

Ball No.	No.	Pin Name	Function
AF26	51	AD4TXOUT3M	Address LVDS signal output
AE26	52	AD4TXCLKOUTM	Address LVDS signal output
AD26	53	AD4TXOUT2M	Address LVDS signal output
AC26	54	AD4TXOUT1M	Address LVDS signal output
AB26	55	AD4TXOUT0M	Address LVDS signal output
AA26	56	AD5TXOUT3M	Address LVDS signal output
Y26	57	AD5TXCLKOUTM	Address LVDS signal output
W26	58	AD5TXOUT2M	Address LVDS signal output
V26	59	AD5TXOUT1M	Address LVDS signal output
U26	60	AD5TXOUT0M	Address LVDS signal output
T26	61	SDIDBI_N	JTAG signal
R26	62	SDIJTAG	JTAG signal
P26	63	GPIO0_3	Microcomputer macro general-purpose port
N26	64	GPIO0_1	Microcomputer macro general-purpose port
M26	65	YSUSA_4	Y-Drive control signal output
L26	66	YSUSA_10	Y-Drive control signal output
K26	67	YSUSA_14	Y-Drive control signal output
J26	68	YSUSB_4	Y-Drive control signal output
H26	69	YSUSB_6	Y-Drive control signal output
G26	70	YSUSB_10	Y-Drive control signal output
F26	71	YSUSB_14	Y-Drive control signal output
E26	72	NC	
		NC	NC pin
D26 C26	73 74		NC pin
		SCAN_10	Scan control signal output
B26	75	CSIOTXD	Communication with microcomputer
A26	76	CSRD_N	Communication with microcomputer
A25	77	CSCS_N0	Communication with microcomputer
A24	78	EXA16	Flash memory address bus
A23	79	EXA15	Flash memory address bus
A22	80	EXA14	Flash memory address bus
A21	81	EXA13	Flash memory address bus
A20	82	EXA12	Flash memory address bus
A19	83	EXA10	Flash memory address bus
A18	84	EXA7	Flash memory address bus
A17	85	EXA1	Flash memory address bus
A16	86	EXDIO_3	Flash memory data bus
A15	87	EXDIO_5	Flash memory data bus
A14	88	EXDIO_11	Flash memory data bus
A13	89	TRNSEND_O	NC pin
A12	90	RBI_5	B phase signal input of R video (fifth bit)
A11	91	RBI_0	B phase signal input of R video (0 bit)
A10	92	GBI_8	B phase signal input of G video (eighth bit)
A9	93	GBI_2	B phase signal input of G video (second bit)
A8	94	BBI_6	B phase signal input of B video (sixth bit)
A7	95	BBI_0	B phase signal input of B video (0 bit)
A6	96	VDI	VD signal input
A5	97	RAI_5	A phase signal input of R video (fifth bit)
A4	98	DCLKI	CLK input
A3	99	GAI_4	A phase signal input of G video (fourth bit)
A2	100	BAI_9	A phase signal input of B video (ninth bit)

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● Pin Function (3/10)

Ball No.	No.	Pin Name	Function
B2	101	BAI_8	A phase signal input of B video (eighth bit)
C2	102	BAI_7	A phase signal input of B video (seventh bit)
D2	103	GND	GND
E2	104	NC	NC
F2	105	NC	NC
G2	106	BAI_1	A phase signal input of B video (first bit)
H2	107	XSUSB_15	X-Drive control signal output
J2	108	GND	GND
K2	109	XSUSB_9	X-Drive control signal output
L2	110	XSUSB_3	X-Drive control signal output
M2	111	XSUSA_15	X-Drive control signal output
N2	112	XSUSA_9	X-Drive control signal output
P2	113	GND	GND
R2	114	XSUSA_1	X-Drive control signal output
T2	115	TEST2	Test signal input (Not used)
U2	116	AD6TXOUT3P	Address LVDS signal output
V2	117	AD6TXCLKOUTP	Address LVDS signal output
W2	118	AD6TXOUT2P	Address LVDS signal output
Y2	119	AD6TXOUT1P	Address LVDS signal output
AA2	120	AD6TXOUT0P	Address LVDS signal output
AB2	121	AD7TXOUT3P	Address LVDS signal output
AC2	122	AD7TXCLKOUTP	Address LVDS signal output
AD2	123	AD7TXOUT2P	Address LVDS signal output
AE2	124	AD7TXOUT1P	Address LVDS signal output
AE3	125	VSSLA	GND
AE4	126	AD3TXOUT3P	Address LVDS signal output
AE5	127	AD3TXCLKOUTP	Address LVDS signal output
AE6	128	AD3TXOUT2P	Address LVDS signal output
AE7	129	AD3TXOUT1P	Address LVDS signal output
AE8	130	AD3TXOUT0P	Address LVDS signal output
AE9	131	AD2TXOUT3P	Address LVDS signal output
AE10	132	AD2TXCLKOUTP	Address LVDS signal output
AE11	133	AD2TXOUT2P	Address LVDS signal output
AE12	134	AD2TXOUT1P	Address LVDS signal output
AE13	135	AD2TXOUT0P	Address LVDS signal output
AE14	136	AD1TXOUT3P	Address LVDS signal output
AE15	137	AD1TXCLKOUTP	Address LVDS signal output
AE16	138	AD1TXOUT2P	Address LVDS signal output
AE17	139	AD1TXOUT1P	Address LVDS signal output
AE18	140	AD1TXOUT0P	Address LVDS signal output
AE19	141	AD0TXOUT3P	Address LVDS signal output
AE20	142	AD0TXCLKOUTP	Address LVDS signal output
AE21	143	AD0TXOUT2P	Address LVDS signal output
AE22	144	AD0TXOUT1P	Address LVDS signal output
AE23	145	AD0TXOUT0P	Address LVDS signal output
AE24	146	VSSL15	GND
AE25	147	AD4TXCLKOUTP	Address LVDS signal output
AD25	148	AD4TXOUT2P	Address LVDS signal output
AC25	149	AD4TXOUT1P	Address LVDS signal output
AB25	150	AD4TXOUT0P	Address LVDS signal output

● Pin Function (4/10)

Ball No.	No.	Pin Name	Function
AA25	151	AD5TXOUT3P	Address LVDS signal output
Y25	152	AD5TXCLKOUTP	Address LVDS signal output
W25	153	AD5TXOUT2P	Address LVDS signal output
V25	154	AD5TXOUT1P	Address LVDS signal output
U25	155	AD5TXOUT0P	Address LVDS signal output
T25	156	SDITRST_N	JTAG signal
R25	157	RESETX	Reset input
P25	158	GND	GND
N25	159	GPIO0_0	Microcomputer macro general-purpose port
M25	160	YSUSA_5	Y-Drive control signal output
L25	161	YSUSA_11	Y-Drive control signal output
K25	162	YSUSA_15	Y-Drive control signal output
J25	163	GND	GND
H25	164	YSUSB_7	Y-Drive control signal output
G25	165	YSUSB_11	Y-Drive control signal output
F25	166	NC	NC pin
E25	167	NC	NC pin
D25	168	GND	GND
C25	169	SCAN_11	Scan control signal output
B25	170	CSIORXD	Communication with UCOM
B24	171	CSIOSCKI	Communication with UCOM
B23	172	UARTTXD	Communication with UCOM
B22	173	UARTRXD	Communication with UCOM
B21	174	CSWR_N0	Communication with UCOM
B20	175	GND	GND
B19	176	EXA9	Flash memory address bus
B18	177	EXA6	Flash memory address bus
B17	178	EXA0	Flash memory address bus
B16	179	GND	GND
B15	180	EXDIO_6	Flash memory data bus
B14	181	EXDIO_12	Flash memory data bus
B13	182	RBI_9	B phase signal input of R video (ninth bit)
B12	183	RBI_4	B phase signal input of R video (fourth bit)
B12	184	GND	GND
B10	185	GBI_7	B phase signal input of G video (seventh bit)
B9	186	GBI_1	B phase signal input of G video (several bit) B phase signal input of G video (first bit)
B8	187	BBI_5	B phase signal input of B video (fifth bit)
B7	188	GND	GND
B6	189	HDI	HD signal input
B5	190	RAI_4	A phase signal input of R video (fourth bit)
B4	190	GAI_9	A phase signal input of R video (north bit) A phase signal input of G video (ninth bit)
B3	192	GAI_9 GAI_3	A phase signal input of G video (third bit) A phase signal input of G video (third bit)
C3	192	GAI_3	A phase signal input of G video (triffd bit) A phase signal input of G video (second bit)
D3	193	VDDD33	3.3V power supply
E3	194	GAI_1	A phase signal input of G video (first bit)
F3	195	GAI_0	A phase signal input of G video (first bit) A phase signal input of G video (0 bit)
		NC	
G3	197		NC pin
H3	198	XSUSB_14	X-Drive control signal output
J3	199	VDDIO	3.3V power supply
K3	200	XSUSB_8	X-Drive control signal output

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■ PD5856A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

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● Pin Function (5/10)

Ball No.	No.	Pin Name	Function
L3	201	XSUSB_2	X-Drive control signal output
МЗ	202	XSUSA_14	X-Drive control signal output
N3	203	XSUSA_8	X-Drive control signal output
P3	204	VDDIO	3.3V power supply
R3	205	XSUSA_0	X-Drive control signal output
T3	206	TEST1	Test signal input (Not used)
U3	207	VSSLA	GND
V3	208	VSSLA	GND
W3	209	VSSLA	GND
Y3	210	VSSLA	GND
AA3	211	VSSLA	GND
AB3	212	VSSLA	GND
AC3	213	VSSLA	GND
AD3	214	VSSLA	GND
AD4	215	VSSLA	GND
AD5	216	VSSLA	GND
AD6	217	VSSLA	GND
AD7	218	VSSLA	GND
AD8	219	VSSLA	GND
AD9	220	VSSLA	GND
AD10	221	VSSLA	GND
AD11	222	VSSLA	GND
AD12	223	VSSLA	GND
AD13	224	VSSLA	GND
AD14	225	VSSLA	GND
AD15	226	VSSLA	GND
AD16	227	VSSLA	GND
AD17	228	VSSLA	GND
AD17	229	VSSLA	GND
AD10	230	VSSLA	GND
AD19 AD20	231	VSSLA	GND
AD20 AD21	232	VSSLA	GND
AD21 AD22	232	VSSLA	GND
AD23	234	VSSLA	GND
AD24	235	VSSLA	GND
AC24 AB24	236 237	VSSLA VSSLA	GND GND
		VSSLA	GND
AA24 Y24	238	VSSLA	GND
W24	239	VSSLA	GND
VV24 V24	240	VSSLA	
	241		GND
U24	242	VSSLA	GND
T24	243	SDITDO	JTAG signal
R24	244	GPIO0_7	Microcomputer macro general-purpose port
P24	245	VDDIO	3.3V power supply
N24	246	YSUSA_0	Y-Drive control signal output
M24	247	YSUSA_6	Y-Drive control signal output
L24	248	YSUSA_12	Y-Drive control signal output
K24	249	YSUSB_0	Y-Drive control signal output
J24	250	VDDD33	3.3V power supply

● Pin Function (6/10)

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Ball No.	No.	Pin Name	Function
H24	251	YSUSB_8	Y-Drive control signal output
G24	252	NC	NC pin
F24	253	YSUSB_15	Y-Drive control signal output
E24	254	SCAN_3	Scan control signal output
D24	255	VDDD33	3.3V power supply
C24	256	SCAN_12	Scan control signal output
C23	257	SCAN_13	Scan control signal output
C22	258	SCAN_14	Scan control signal output
C21	259	SCAN_15	Scan control signal output
C20	260	VDDIO	3.3V power supply
C19	261	EXA8	Flash memory address bus
C18	262	EXA5	Flash memory address bus
C17	263	CLKD	CLK input (60MHz)
C16	264	VDDIO	3.3V power supply
C15	265	EXDIO_7	Flash memory data bus
C14	266	EXDIO_13	Flash memory data bus
C13	267	RBI_8	B phase signal input of R video (eighth bit)
C12	268	RBI_3	B phase signal input of R video (third bit)
C11	269	VDDIO	3.3V power supply
C10	270	GBI_6	B phase signal input of G video (sixth bit)
C9	271	GBI_0	B phase signal input of G video (0 bit)
C8	272	BBI_4	B phase signal input of B video (fourth bit)
C7	273	VDDIO	3.3V power supply
C6	274	RAI_9	A phase signal input of R video (ninth bit)
C5	275	RAI_3	A phase signal input of R video (third bit) A phase signal input of R video (third bit)
C4	276	GAI_8	A phase signal input of C video (tillid bit) A phase signal input of G video (eighth bit)
D4	277	GAI_6	A phase signal input of G video (seventh bit) A phase signal input of G video (seventh bit)
E4			
F4	278 279	GAL 5	A phase signal input of G video (sixth bit)
-		GAI_5	A phase signal input of G video (fifth bit)
G4	280	VCMP	GND
H4	281	XSUSB_13	X-Drive control signal output
J4	282	XSUSB_11	X-Drive control signal output
K4	283	XSUSB_7	X-Drive control signal output
L4	284	XSUSB_1	X-Drive control signal output
M4	285	XSUSA_13	X-Drive control signal output
N4	286	XSUSA_7	X-Drive control signal output
P4	287	XSUSA_3	X-Drive control signal output
R4	288	ADRS_3	Address control signal output
T4	289	TESTAN	Test signal input (Not used)
U4	290	VDDLA	3.3V power supply
V4	291	VDDLA	3.3V power supply
W4	292	VDDLA	3.3V power supply
Y4	293	VDDLA	3.3V power supply
AA4	294	VDDLA	3.3V power supply
AB4	295	VDDLA	3.3V power supply
AC4	296	VDDLA	3.3V power supply
AC5	297	VDDLA	3.3V power supply
AC6	298	VDDLA	3.3V power supply
AC7	299	VDDLA	3.3V power supply
AC8	300	VDDLA	3.3V power supply

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● Pin Function (7/10)

Ball No.	No.	Pin Name	Function
AC8	300	VDDLA	3.3V power supply
AC9	301	VDDLA	3.3V power supply
AC10	302	VDDLA	3.3V power supply
AC11	303	VDDLA	3.3V power supply
AC12	304	VDDLA	3.3V power supply
AC13	305	VDDLA	3.3V power supply
AC14	306	VDDBG	3.3V power supply
AC15	307	VDDLA	3.3V power supply
AC16	308	VDDLA	3.3V power supply
AC17	309	VDDLA	3.3V power supply
AC18	310	VDDLA	3.3V power supply
AC19	311	VDDLA	3.3V power supply
AC20	312	VDDLA	3.3V power supply
AC21	313	VDDLA	3.3V power supply
AC22	314	VDDLA	3.3V power supply
AC23	315	VDDLA	3.3V power supply
AB23	316	VDDLA	3.3V power supplyv
AA23	317	VDDLA	3.3V power supply
Y23	318	VDDLA	3.3V power supply
W23	319	VDDLA	3.3V power supply
V23	320	VDDLA	3.3V power supply
U23	321	VDDLA	3.3V power supply
T23	322	SDITDI	JTAG signal
R23	323	GPIO0_6	Microcomputer macro general-purpose port
P23	324	GPIO0_2	Microcomputer macro general-purpose port
N23	325	YSUSA_1	Y-Drive control signal output
M23	326	YSUSA_7	Y-Drive control signal output
L23	327	YSUSA_13	Y-Drive control signal output
K23	328	YSUSB_1	Y-Drive control signal output
J23	329	YSUSB_5	Y-Drive control signal output
H23	330	YSUSB_9	Y-Drive control signal output
G23	331	VCMP	GND
F23	332	SCAN 0	Scan control signal output
E23	333	SCAN_4	Scan control signal output
D23	334	SCAN_7	Scan control signal output Scan control signal output
D23	335	SCAN_8	Scan control signal output
D22	336	SCAN_9	Scan control signal output Scan control signal output
D21	337	EXA11	Flash memory address bus
D20	338	EXA19	Flash memory address bus
D19	339	EXA4	Flash memory address bus
D17	340	EXDIO_0	Flash memory data bus
D17	341	EXDIO_4	Flash memory data bus
D16	342	EXDIO_4 EXDIO_8	Flash memory data bus
D13	343	EXDIO_6 EXDIO_14	Flash memory data bus
D14	343	RBI_7	B phase signal input of R video (seventh bit)
			B phase signal input of R video (seventh bit) B phase signal input of R video (second bit)
D12	345	RBI_2	
D11	346	GBI_9	B phase signal input of G video (ninth bit)
D10	347	GBI_5	B phase signal input of G video (fifth bit)
D9	348	BBI_9	B phase signal input of B video (ninth bit)
D8	349	BBI_3	B phase signal input of B video (tenth bit)

• Pin Function (8/10)

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Ball No.	No.	Pin Name	Function
D7	350	DEI	DE signal input
D6	351	RAI_8	A phase signal input of R video (eighth bit)
D5	352	RAI_2	A phase signal input of R video (second bit)
E5	353	RAI_1	A phase signal input of R video (first bit)
F5	354	RAI_0	A phase signal input of R video (0 bit)
G5	355	BAI_0	A phase signal input of B video (0 bit)
H5	356	VSS15	GND
J5	357	VDDHR	3.3V power supply
K5	358	XSUSB 6	X-Drive control signal output
L5	359	VSSD15	GND
M5	360	XSUSA_12	X-Drive control signal output
N5	361	XSUSA_6	X-Drive control signal output
P5	362	VSS15	GND
R5	363	ADRS_2	Address control signal output
T5	364	TESTBN	Test signal input (Not used)
U5	365	VSSL15	GND
V5	366	VSSLA	GND
W5	367	VSSLA	GND
Y5	368	VSSL15	GND
AA5	369	VDDLP	3.3V power supply
AB5	370	VSSL15	GND
AB6	371	VSSLA	GND
AB7	372	VSSLA	GND
AB8	373	VSSL15	GND
AB9	374	VSSLA	GND
AB10	375	VSSLA	GND
AB11	376	VSSL15	GND
AB12	377	VSSLA	GND
AB13	378	VSSLA	GND
AB14	378	REFRIN	Reference current generation
AB15	380	VSSBG	GND
AB16	381	VSSL15	GND
AB17	382	VSSLA	GND
AB18	383	VSSLA	GND
AB19	384	VSSL15	GND
AB20	385	VSSLA	GND
AB21	386	VSSLA	GND
AB22	387	VSSLA	GND
AA22	388	VDDLA	3.3V power supply
Y22	389	VSSL15	GND
W22	390	VSSLA	GND
V22	391	VSSLA	GND
U22	392	VSSL15	GND
T22	393	SDITMS	JTAG signal
R22	394	GPIO0_5	Microcomputer macro general-purpose port
P22	395	VSS15	GND
N22	396	YSUSA_2	Y-Drive control signal output
M22	397	YSUSA_8	Y-Drive control signal output
L22	398	VSSD15	GND
K22	399	YSUSB_2	Y-Drive control signal output

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• Pin Function (9/10)

Ball No.	No.	Pin Name	Function
J22	400	VDDHL	3.3V power supply
H22	401	VSSD15	GND
G22	402	YSUSB_12	Y-Drive control signal output
F22	403	SCAN_1	Scan control signal output
E22	404	SCAN_5	Scan control signal output
E21	405	SCAN_6	Scan control signal output
E20	406	VSS15	GND
E19	407	EXA18	Flash memory address bus
E18	408	EXA3	Flash memory address bus
E17	409	EXDIO_1	Flash memory data bus
E16	410	VSS15	GND
E15	411	EXDIO_9	Flash memory data bus
E14	412	EXDIO_15	Flash memory data bus
E13	413	RBI_6	B phase signal input of R video (sixth bit)
E12	414	CLKS	CLK input (85MHz)
E11	415	VSS15	GND
E10	416	GBI_4	B phase signal input of G video (fourth bit)
E8	418	BBI_2	B phase signal input of B video (second bit)
			B phase signal input of B video (second bit) B phase signal input of B video (eighth bit)
E9	417	BBI_8	GND
E7	419	VSS15	
E6	420	RAI_7	A phase signal input of R video (seventh bit)
F6	421	RAI_6	A phase signal input of R video (sixth bit)
G6	422	APL_DT	APL value trigger input
H6	423	VDD15	1.5V power supply
J6	424	VBB	VBB power monitor in the DRAM
K6	425	XSUSB_5	X-Drive control signal output
L6	426	VDDD15	1.5V power supply
M6	427	XSUSA_11	X-Drive control signal output
N6	428	XSUSA_5	X-Drive control signal output
P6	429	VDD15	1.5V power supply
R6	430	ADRS_1	Address control signal output
T6	431	TESTCN	Test signal input (Not used)
U6	432	VDDL15	1.5V power supply
V6	433	VDDLA	3.3V power supply
W6	434	VDDLA	3.3V power supply
Y6	435	VDDL15	1.5V power supply
AA6	436	VDDLA	3.3V power supply
AA7	437	VDDLA	3.3V power supply
AA8	438	VDDL15	1.5V power supply
AA9	439	VDDLA	3.3V power supply
AA10	440	VDDLA	3.3V power supply
AA11	441	VDDL15	1.5V power supply
AA12	442	VDDLA	3.3V power supply
AA13	443	VDDLA	3.3V power supply
AA14	444	VDDLA	3.3V power supply
AA15	445	VDDLA	3.3V power supply
AA16	446	VDDL15	1.5V power supply
AA17	447	VDDLA	3.3V power supply
AA18	448	VDDLA	3.3V power supply
AA19	449	VDDL15	1.5V power supply

● Pin Function (10/10)

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Ball No.	No.	Pin Name	Function
AA20	450	VDDLA	3.3V power supply
AA21	451	VDDLA	3.3V power supply
Y21	452	VDDL15	1.5V power supply
W21	453	VDDLA	3.3V power supply
V21	454	VDDLA	3.3V power supply
U21	455	VDDL15	1.5V power supply
T21	456	SDITCK	JTAG signal
R21	457	GPIO0_4	Microcomputer macro general-purpose port
P21	458	VDD15	1.5V power supply
N21	459	YSUSA_3	Y-Drive control signal output
M21	460	YSUSA_9	Y-Drive control signal output
L21	461	VDDD15	1.5V power supply
K21	462	YSUSB_3	Y-Drive control signal output
J21	463	VBB	VBB power monitor in the DRAM
H21	464	VDDD15	1.5V power supply
G21	465	YSUSB_13	Y-Drive control signal output
F21	466	SCAN_2	Scan control signal output
F20	467	VDD15	1.5V power supply
F19	468	EXA17	Flash memory address bus
F18	469	EXA2	Flash memory address bus
F17	470	EXDIO_2	Flash memory data bus
F16	471	VDD15	1.5V power supply
F15	472	EXDIO_10	Flash memory data bus
F14	473	TRNSEND_I	NC pin
F13	474	VDD15	1.5V power supply
F12	475	RBI_1	B phase signal input of R video (first bit)
F11	476	VDD15	1.5V power supply
F10	477	GBI_3	B phase signal input of G video (third bit)
F9	478	BBI_7	B phase signal input of B video (seventh bit)
F8	479	BBI_1	B phase signal input of B video (first bit)
F7	480	VDD15	1.5V power supply

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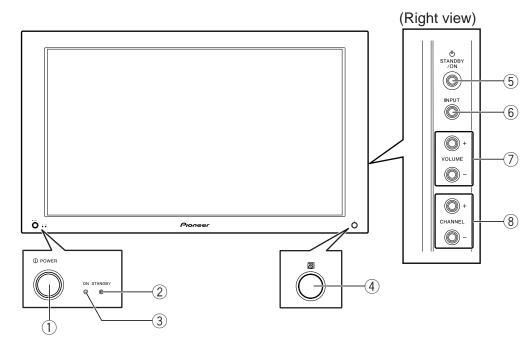
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8. PANEL FACILITIES AND SPECIFICATIONS

- PLASMA DISPLAY (PDP-434PU, PDP-434PG, PDP-434PE)
 - Front view



- 1 POWER button
- 2 STANDBY indicator
- ③ POWER ON indicator
- 4 Remote control sensor

- **5** STANDBY/ON button
- 6 INPUT button
- 7 VOLUME +/- buttons
- 8 CHANNEL +/- buttons

PDP-434PU

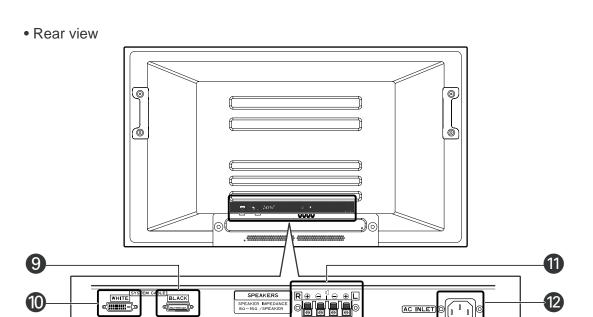
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The terminals have faced downward.

- 9 SYSTEM CABLE terminal (BLACK)
- SYSTEM CABLE terminal (WHITE)

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- SPEAKER (right/left) terminals
- AC INLET terminal

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С